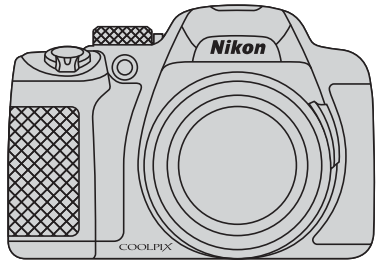
Nikon

DIGITAL CAMERA

COOLPIX P530

Reference Manual



En

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The Basics of Shooting and Playback

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Playback Features

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General Camera Setup

Connecting the Camera to a TV, Computer, or Printer

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Introduction

Read This First

Thank you for purchasing the Nikon COOLPIX P530 digital camera. Before using the camera, please read the information in "For Your Safety" (vii-ix) and familiarize yourself with the information provided in this manual. After reading, please keep this manual handy and refer to it to enhance your enjoyment of your new camera.

About This Manual

If you want to start using the camera right away, see "The Basics of Shooting and Playback" (📖16).

To learn about the parts of the camera and information that is displayed in the monitor, see "Parts of the Camera and Main Functions" (📖1).

Other Information

- Symbols and Conventions
  To make it easier to find the information you need, the following symbols and conventions are used in this manual:

Symbol	Description
☑	This icon indicates cautions and information that should be read before using the camera.
✎	This icon indicates notes and information that should be read before using the camera.
📖/🕶/☼	These icons indicate other pages containing relevant information; 🕶: "Reference Section", ☼: "Technical Notes and Index."

- SD and SDHC/SDXC memory cards are referred to as "memory cards" in this manual.
- The setting at the time of purchase is referred to as the "default setting."
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed on a computer monitor appear in bold.
- In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.
- Illustrations and monitor content shown in this manual may differ from the actual product.

Information and Precautions

Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following sites:

- For users in the U.S.A.: *http://www.nikonusa.com/*
- For users in Europe and Africa: *http://www.europe-nikon.com/support/*
- For users in Asia, Oceania, and the Middle East: *http://www.nikon-asia.com/*

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. Visit the site below for contact information:

http://imaging.nikon.com/

Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, charging AC adapter, AC adapters and cables) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY.

The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

Holographic seal: Identifies this device as an authentic Nikon product.

Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

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The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the **Select an image** option in the **Welcome screen** setting (📖91). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:

This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury.

WARNINGS

Turn off in the event of malfunction

Should you notice smoke or an unusual smell coming from the camera or charging AC adapter, unplug the charging AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.

Do not disassemble

Touching the internal parts of the camera or charging AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or charging AC adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery.

Do not use the camera or charging AC adapter in the presence of flammable gas

Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

Handle the camera strap with care

Never place the strap around the neck of an infant or child.

Keep out of reach of children

Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.

Do not remain in contact with the camera, charging AC adapter, or AC adapter for extended periods while the devices are on or in use

Parts of the devices become hot. Leaving the devices in direct contact with the skin for extended periods may result in low-temperature burns.

Do not leave the product where it will be exposed to extremely high temperatures, such as in an enclosed automobile or in direct sunlight

Failure to observe this precaution could cause damage or fire.

Observe caution when handling the battery

The battery may leak, overheat, or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the charging AC adapter/AC adapter, be sure it is unplugged.
- Use only a Rechargeable Li-ion Battery EN-EL5 (included). Charge the battery by using a camera that supports battery charging or by using a Battery Charger MH-61 (available separately). To charge the battery with the camera, use either Charging AC Adapter EH-70P/EH-70PCH (included) or the **Charge by computer** function.
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Put the battery in a plastic bag, etc. to insulate the terminal before transporting it. Do not transport or store with metal objects such as necklaces or hairpins.
- The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water.

Observe the following precautions when handling the charging AC adapter

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the plug or go near the charging AC adapter during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the USB cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.

- Do not handle the plug or charging AC adapter with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

⚠ Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

⚠ Handle moving parts with care

Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts.

⚠ Using the flash close to your subject's eyes could cause temporary visual impairment

The flash should be no less than 1 m (3 ft 4 in.) from the subject.

Particular care should be observed when photographing infants.

⚠ Do not operate the flash with the flash window touching a person or object

Failure to observe this precaution could result in burns or fire.

⚠ Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

⚠ Turn the power off when using inside an airplane or the hospital

Turn the power off while inside the airplane during take off or landing.

Do not use wireless network functions while in the air.

Follow the instructions of the hospital when using while in a hospital.

The electromagnetic waves emitted by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital.

If you are using wireless network devices, remove them from the camera before boarding an aircraft or entering a hospital.

Notices for Customers in the U.S.A.

IMPORTANT SAFETY INSTRUCTIONS -

SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed.

The power supply unit is intended to be correctly orientated in a vertical or floor mount position.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FC *Nikon*
COOLPIX P530

CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC Rules.

Notice for Customers in the State of California

WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.
Wash hands after handling.

Nikon Inc.,
1300 Walt Whitman Road,
Melville, New York 11747-3064
USA
Tel: 631-547-4200

Notice for Customers in Canada

CAN ICES-3 B / NMB-3 B

Notices for Customers in Europe

CAUTIONS

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

This symbol indicates that electrical and electronic equipment is to be collected separately.
The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately.
The following apply only to users in European countries:

- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

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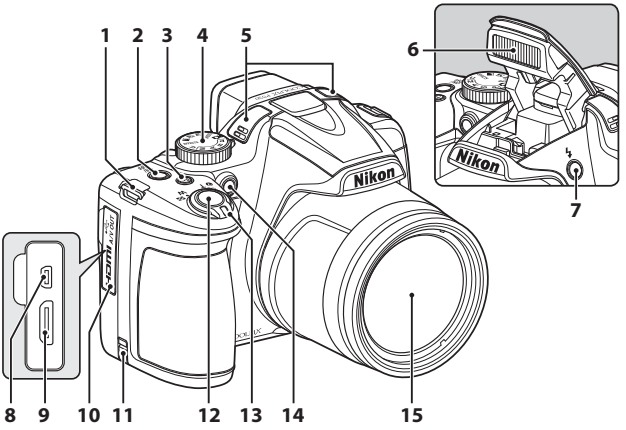
Parts of the Camera and Main Functions

The Camera Body



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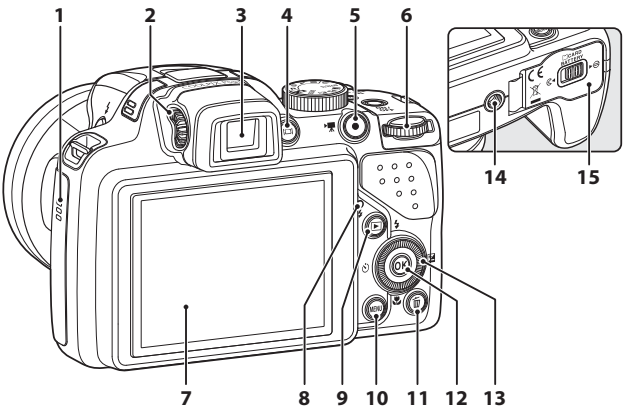

1	Speaker 82, 89, 91	9	▶ (playback) button 32
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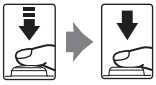
* Also referred to as the "multi selector" in this manual.

Principle Functions of the Controls

For Shooting

Control	Main Function	🕮
Mode dial	Change the shooting mode.	26
Zoom control	Move toward **T** (🔍) (telephoto) to zoom in closer to the subject, and move toward **W** (▦) (wide-angle) to zoom out and view a larger area.	29
Multi selector	• While the shooting screen is displayed: Display the following setting screens by pressing: - Up (▲): ϟ (flash mode) - Left (◀): ⏲ (self-timer/smile timer) - Down (▼): 🌷 (focus mode) - Right (▶): ± (exposure compensation) • When the shooting mode is **A** or **M**: Rotate the multi selector to set the aperture value. • While the setting screen is displayed: Select an item using ▲▼◀▶ or by rotating the multi selector; apply the selection by pressing the ⓚ button.	55 48, 50 8
Command dial	• When the shooting mode is **P**: Set the flexible program. • When the shooting mode is **S** or **M**: Set the shutter speed. • While the setting screen is displayed: Select an item.	48, 50 48, 50 8
MENU (menu) button	Display and hide the menu.	8, 68, 82, 89, 91
 Shutter-release button	When pressed halfway (i.e., if you stop pressing when you feel resistance slightly): Set focus and exposure. When pressed all the way (i.e., if you press the button all the way down): Release the shutter.	30, 31

Control	Main Function	🕮
● (movie-record) button	Start and stop movie recording.	85
Fn (function) button	When the shooting mode is **P**, **S**, **A**, **M** or **U**: Display or close the setting menus such as **Continuous** or **Vibration reduction**.	71
(monitor) button	Switch between the monitor and viewfinder.	7
(playback) button	Play back images.	32
(delete) button	Delete the last image that was saved.	33

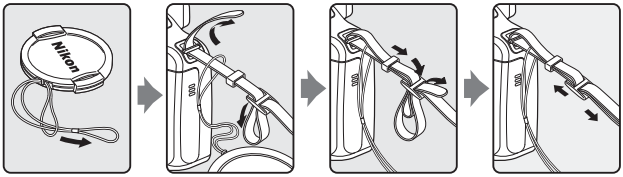
For Playback

Control	Main Function	🕮
(playback) button	• When the camera is turned off, press and hold this button to turn the camera on in playback mode. • Return to shooting mode.	32 32
Zoom control	• Move toward **T** (Q) to zoom in on the image, and move toward **W** (▦) to display images as thumbnails or the calendar. • Adjust the volume for voice memo and movie playback.	80, 81 82, 89
Multi selector	• While the playback screen is displayed: Change the displayed image using up (▲), left (◀), down (▼), right (▶), or by rotating the multi selector. • While the setting screen is displayed: Select an item using ▲▼◀▶ or by rotating the multi selector. • While an enlarged image is displayed: Move the display area.	32 8 80

Control	Main Function	🕮
  OK (apply selection) button	• Switch the monitor display between the histogram, tone level and shooting information display and full-frame playback. • Display individual images of a sequence in full-frame playback mode. • Scroll an image shot with Easy panorama. • Play back movies. • Switch from thumbnail playback or zoomed image display to full-frame playback. • While the setting screen is displayed, apply the selection.	32 83, 5 43, 4 89 80, 81 8
  Command dial	Switch the magnification of an enlarged image.	80
  MENU (menu) button	Display and hide the menu.	8, 82
  (delete) button	Delete images.	33
  (monitor) button	Switch between the monitor and viewfinder.	7
  Shutter-release button	Return to shooting mode.	–
  ● (movie-record) button		

Attaching the Camera Strap and Lens Cap

Attach the Lens Cap LC-CP24 to the strap, and then attach the strap to the camera.



Attach the strap at two places.

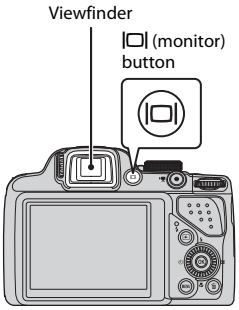
Lens Cap

- At times when you are not shooting images, attach the lens cap to the lens to protect it.
- Do not attach anything other than the lens cap to the lens.

Switching Between the Monitor and Viewfinder (|▭| Button)

You can use the viewfinder when bright light under the open sky makes it difficult to see the monitor.

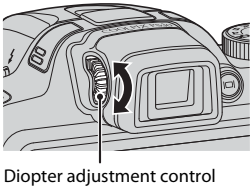
Each press of the |▭| button switches the display between the monitor and viewfinder.



Diopter Adjustment of the Viewfinder

When the image in the viewfinder is difficult to see, adjust by rotating the diopter adjustment control while looking through the viewfinder.

- Take care not to scratch your eye with your fingertips or nails.



Notes About Checking and Adjusting Image Colors

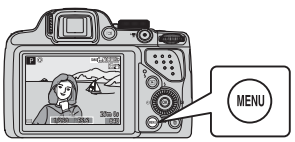
Use the monitor on the back of the camera because the monitor has higher color reproducibility than the viewfinder.

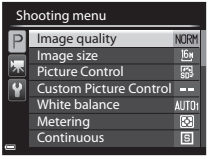
Using Menus (the MENU Button)

Use the multi selector and OK button to navigate the menus.

1 Press the MENU button.

- The menu that matches the status of the camera, such as shooting or playback menu, is displayed.
  Unavailable menu items are displayed in gray and cannot be selected.





2 Use the multi selector to select a menu item.

- ▲▼ or rotation: Select an item above or below.
- ◀▶: Select an item on the left or right, or move between menu levels.
- OK: Apply a selection. Pressing ▶ also applies a selection.
- See 9 for more information on how to switch tabs.

3 After completing the settings, press the MENU button or shutter-release button.

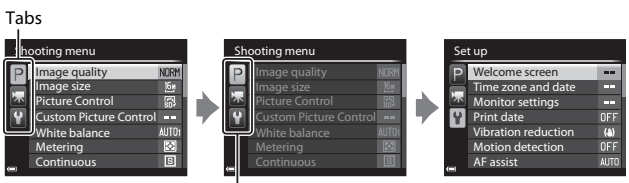
- Press the shutter-release button to display the shooting screen.

Notes About the Command Dial Operation When a Menu is Displayed

Rotating the command dial when a menu is displayed allows you to select an item.

Switching Among Menu Tabs

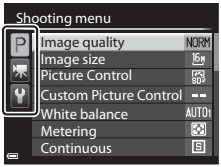
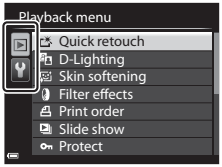
To display a different menu, such as the setup menu (91), use the multi selector to switch to another tab.



Use ◀ to move to the tabs.

Use ▲▼ to select a tab, and press the OK button or ▶ to apply the selection.

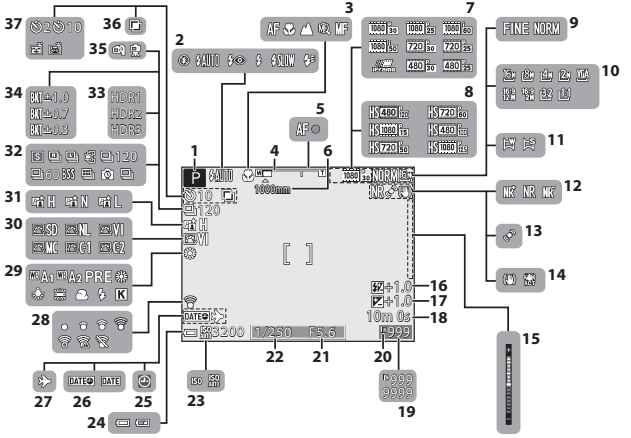
Tab Types

For Shooting	For Playback
	
P tab: Displays the settings available for the current shooting mode (27). Depending on the current shooting mode, the tab icon that is displayed will be different. tab: Displays movie recording settings.	tab: Displays the settings available for the playback mode.
tab: Displays the setup menu, where you can change general settings.	

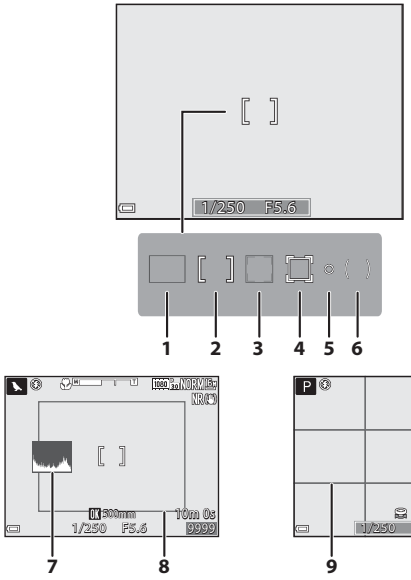
The Monitor

The information that is displayed in the monitor during shooting and playback changes depending on the camera's settings and state of use. By default, information is displayed when the camera is first turned on and when you operate the camera, and turns off after a few seconds (when **Photo info** is set to **Auto info** in **Monitor settings** (📖91)).

For Shooting



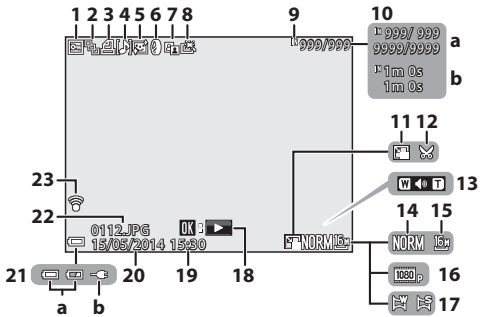
1 Shooting mode 26, 27
2 Flash mode 56
3 Focus mode 61
4 Zoom indicator 29, 62
5 Focus indicator 30
6 Zoom memory 70
7 Movie options (normal speed movies) 89
8 Movie options (HS movies) 89
9 Image quality 68
10 Image size 68
11 Easy panorama 43
12 Noise reduction filter 69
13 Motion detection icon 91
14 Vibration reduction icon 91
15 Exposure indicator 50
16 Flash exp. comp. 69
17 Exposure compensation value 65
18 Movie recording time remaining 85, 86
19 Number of exposures remaining (still images) ..... 22, 🔗22
20 Internal memory indicator 22
21 Aperture value 48
22 Shutter speed 48
23 ISO sensitivity 69
24 Battery level indicator 22
25 "Date not set" indicator 24, 91
26 Print date 91
27 Travel destination icon 91
28 Eye-Fi communication indicator ..... 92, 🔗74
29 White balance 68
30 COOLPIX Picture Control 68
31 Active D-Lighting 69
32 Continuous shooting mode 44, 69
33 Backlighting (HDR) 42
34 Exposure bracketing 69
35 Hand-held/tripod 37
36 Multiple exposure 69
37 Self-timer indicator 59
Smile timer 60
Pet portrait auto release 44



1	Focus area (target finding AF) 69, 71, 76
2	Focus area (center/manual) 36, 46, 69, 71, 79
3	Focus area (face detection, pet detection) 44, 60, 69, 71, 77
4	Focus area (subject tracking) 69, 71, 41
5	Spot metering area....69
6	Center-weighted area....69
7	View/hide histograms 65, 91, 62
8	Framing border (**Moon** or **Bird-watching** scene mode) 45
9	View/hide framing grid 91, 62

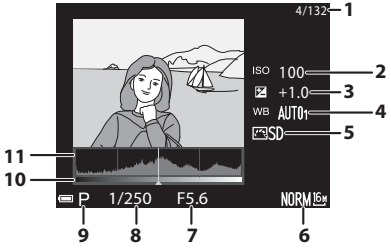
For Playback

Full-frame playback (🕮32)



1	Protect icon 82
2	Sequence display (when **Individual pictures** is selected) 83, 54
3	Print order icon 82
4	Voice memo indicator 82
5	Skin softening icon 82
6	Filter effects icon 82
7	D-Lighting icon 82
8	Quick retouch icon 82
9	Internal memory indicator 21
10	(a) Current image number/ total number of images (b) Movie length
11	Small picture icon 82
12	Crop icon 80
13	Volume indicator 82, 89
14	Image quality 68
15	Image size 68
16	Movie options 89
17	Easy panorama indicator 43
18	Easy panorama playback guide ..... 5, 43 , 4 Sequence playback guide ..... 5, 34, 5 Movie playback guide 89
19	Time of recording 24
20	Date of recording 24
21	(a) Battery level indicator ..... 22 (b) Charging AC adapter connection indicator
22	File number and type 80
23	Eye-Fi communication indicator 92, 74

Tone level information display[1] (32)



1	Current image number/ total number of images
2	ISO sensitivity 69
3	Exposure compensation value ... 65
4	White balance 68
5	COOLPIX Picture Control 68
6	Image quality/Image size 68
7	Aperture value 48
8	Shutter speed 48
9	Shooting mode 27
10	Tone level[2]
11	Histogram[3]

1 You can check for loss of contrast detail in highlights and shadows from the histogram that is displayed, or the flashing display for each tone level. These provide guidelines when adjusting the image brightness with functions such as exposure compensation.

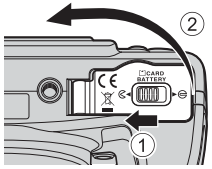
2 The tone level indicates the brightness level. When the tone level to check is selected using the multi selector ◀▶, the area of the image that corresponds to the selected tone level flashes.

3 A histogram is a graph showing the distribution of tones in the image. The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.

The Basics of Shooting and Playback

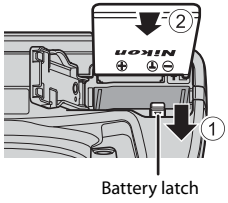
Preparation 1 Insert the Battery

1 Open the battery-chamber/ memory card slot cover.



2 Insert the battery.

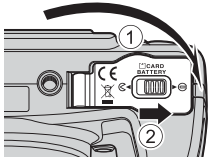
- Push the orange battery latch in the direction indicated by the arrow (①), and fully insert the battery (②).
- The battery locks into place when inserted correctly.



Be Careful to Insert the Battery in Correct Direction

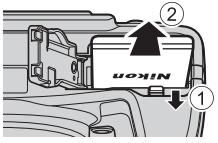
Inserting the battery upside down or backwards could damage the camera.

3 Close the battery-chamber/ memory card slot cover.



Removing the Battery

Turn the camera off and make sure that the power-on lamp and the monitor have turned off, and then open the battery-chamber/memory card slot cover.
Move the battery latch in the direction indicated by the arrow (①) to eject the battery (②).

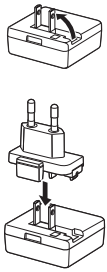


High Temperature Caution

The camera, battery, and memory card may be hot immediately after using the camera.

Preparation 2 Charge the Battery

1 Prepare the included charging AC adapter.



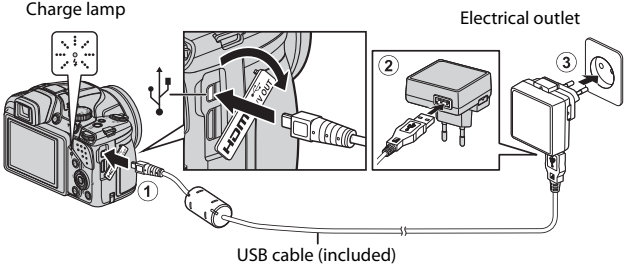
If a plug adapter* is included with your camera, attach the plug adapter to the plug on the charging AC adapter. Push the plug adapter firmly until it is securely held in place. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product.

* The shape of the plug adapter varies according to the country or region in which the camera was purchased.

This step can be omitted if the plug adapter comes permanently bonded to the charging AC adapter.

2 Make sure the battery is inserted in the camera, and then connect the camera to the charging AC adapter in order of ① to ③.

- Keep the camera turned off.
- Make sure that the plugs are properly oriented. Do not insert or remove the plugs at an angle when connecting or disconnecting them.



- The charge lamp slowly flashes green to indicate that the battery is charging.

The charge lamp	Description
Flashes slowly (green)	The battery is charging.
Off	When charging is complete, the charge lamp stops flashing green and turns off. About 4 hours and 10 minutes are required to charge a fully exhausted battery.
Flashes quickly (green)	• The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F). • The USB cable or charging AC adapter is not properly connected, or there is a problem with the battery. Disconnect the USB cable or unplug the charging AC adapter and correctly connect it again, or change the battery.

3 Disconnect the charging AC adapter from the electrical outlet and then disconnect the USB cable.

Turning On the Camera While the Battery is Charging

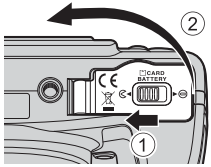
The camera does not turn on while the charging AC adapter is connected to it even when you press the power switch. Press and hold the ▶ (playback) button to turn on the camera in playback mode and play back images. Shooting is not possible.

Charging Using a Computer or Battery Charger

- You can also charge the battery by connecting the camera to a computer (📖92, 93).
- You can use the Battery Charger MH-61 (available separately; 👓81) to charge the battery without using the camera.

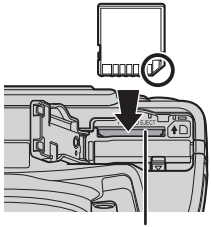
Preparation 3 Insert a Memory Card

1 Turn off the camera and open the battery-chamber/memory card slot cover.



2 Insert the memory card.

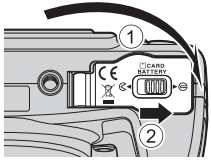
- Slide the memory card in until it clicks into place.



Be Careful to Insert the Memory Card in Correct Direction

Inserting the memory card upside down or backwards could damage the camera and the memory card.

3 Close the battery-chamber/ memory card slot cover.



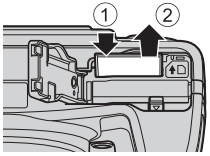
Formatting Memory Cards

The first time you insert a memory card that has been used in another device into this camera, make sure to format it with this camera. Insert the card into the camera, press the MENU button, and select **Format card** in the setup menu.

Removing Memory Cards

Turn the camera off and make sure that the power-on lamp and the monitor have turned off, and then open the battery-chamber/ memory card slot cover.

Gently push the memory card into the camera (①) to partially eject the card (②).



High Temperature Caution

The camera, battery, and memory card may be hot immediately after using the camera.

Internal Memory and Memory Cards

Camera data, including images and movies, can be saved either in the camera's internal memory or on a memory card. To use the camera's internal memory, first remove the memory card.

Approved Memory Cards

The following Secure Digital (SD) memory cards have been tested and approved for use in this camera.

- Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies. When using a memory card with a lower Speed Class rating, movie recording may stop unexpectedly.

	SD memory cards	SDHC memory cards[2]	SDXC memory cards[3]
SanDisk	2 GB[1]	4 GB, 8 GB, 16 GB, 32 GB	64 GB, 128 GB
TOSHIBA	-	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic	2 GB[1]	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Lexar	-	4 GB, 8 GB, 16 GB, 32 GB	64 GB, 128 GB

[1] If the memory card will be used with a card reader or similar device, make sure that the device supports 2 GB cards.

[2] SDHC-compliant. If the memory card will be used with a card reader or similar device, make sure that the device supports SDHC.

[3] SDXC-compliant. If the memory card will be used with a card reader or similar device, make sure that the device supports SDXC.

- Contact the manufacturer for details on the above cards. We cannot guarantee camera performance when using memory cards made by other manufacturers.

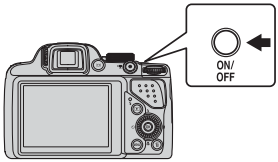
Step 1 Turn the Camera On

1 Remove the lens cap.

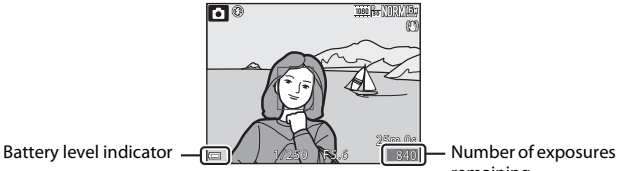
- See "Attaching the Camera Strap and Lens Cap" (🕮6) for more information.

2 Press the power switch.

- **If you are turning the camera on for the first time, see "Setting the Display Language, Date, and Time"** (🕮24).
- The monitor turns on.
- To turn the camera off, press the power switch again.



3 Check the battery level indicator and the number of exposures remaining.



Battery level indicator

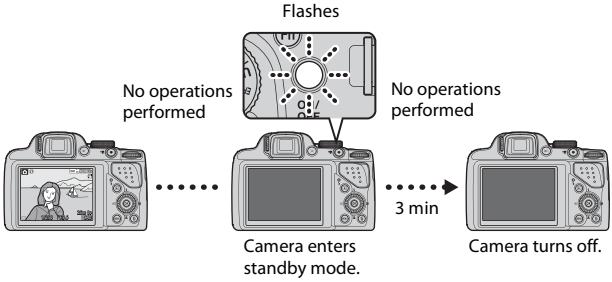
Display	Description
	The battery level is high.
	The battery level is low.
Battery exhausted.	The camera cannot capture images. Recharge the battery.

Number of Exposures Remaining

The number of images that can be taken is displayed.

- IN is displayed when no memory card is inserted in the camera, and images are saved in the internal memory.

The Auto Off Function



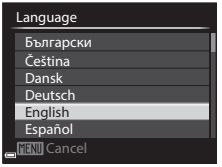
- The time that elapses before the camera enters standby mode is about 1 minute. The time can be changed using the **Auto off** setting in the setup menu (91).
- While the camera is in standby mode, the monitor turns back on if you perform any of the following operations:
  - Press the power switch, shutter-release button, ▶ button, or ● (movie-record) button.
  - Rotate the mode dial.

Setting the Display Language, Date, and Time

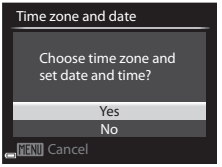
When the camera is turned on for the first time, the language-selection screen and the date and time setting screen for the camera clock are displayed.

- If you exit without setting the date and time, will flash when the shooting screen is displayed.

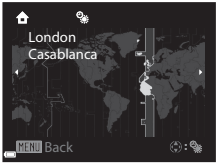
1 Use the multi selector ▲▼ to select the desired language and press the OK button.



2 Select **Yes** and press the OK button.

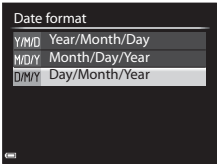


3 Select your home time zone and press the OK button.



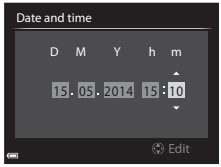
- To enable daylight saving time, press ▲. When the daylight saving time function is enabled, is displayed above the map.
  To turn off the daylight saving time function, press ▼.

4 Select the date format and press the OK button.



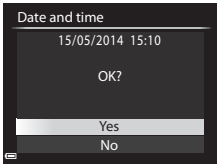
5 Set the date and time, and press the OK button.

- Select a field: Press ◀▶ (changes between **D**, **M**, **Y**, **h**, and **m**).
- Edit the date and time: Press ▲▼. Date and time can also be changed by rotating the multi selector or command dial.
- Confirm the setting: Select the **m** field and press the OK button.



6 Select **Yes** and press the OK button.

- When settings are finished, the lens extends and the camera switches to shooting mode.



Changing the Language Setting and the Date and Time Setting

- You can change these settings using the **Language** and **Time zone and date** settings in the setup menu (91).
- You can enable or disable daylight saving time in the setup menu by selecting **Time zone and date** followed by **Time zone**. Enabling day light saving time moves the clock forward one hour, and disabling it moves the clock back one hour.

The Clock Battery

- The camera's clock is powered by a built-in backup battery. The backup battery charges when the main battery is inserted into the camera or when the camera is connected to an optional AC adapter, and it can run the clock for several days after about 10 hours of charging.
- If the camera's backup battery becomes exhausted, the date and time setting screen is displayed when the camera is turned on. Set the date and time again. See step 2 of "Setting the Display Language, Date, and Time" (24) for more information.

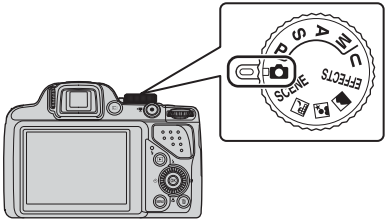
Imprinting the Shooting Date on Printed Images

- You can permanently imprint the shooting date on images as they are captured by setting **Print date** in the setup menu.
- If you want the shooting date to be printed without using the **Print date** setting, print using the ViewNX 2 software (95).

Step 2 Select a Shooting Mode

Rotate the mode dial to select a shooting mode.

- (auto) mode is used in this example. Rotate the mode dial to .



Notes About the Flash

In situations where a flash is needed, such as in dark locations or when the subject is backlit, make sure to raise the flash (56).

Available Shooting Modes

Auto mode (📖35)

Used for general shooting.

SCENE, (night landscape), (night portrait), (landscape) (Scene) modes (📖36)

Camera settings are optimized according to the scene that you select.

- SCENE: Press the **MENU** button and select a scene. When using **Scene auto selector**, the camera automatically selects the optimum scene mode when you frame an image, making it even easier to take images using settings that suit the scene.
- (night landscape): Use this mode to shoot night landscapes.
- (night portrait): Use this mode to shoot evening and night portraits that include background scenery.
- (landscape): Use this mode to shoot landscapes.

EFFECTS (Special effects) mode (📖46)

Effects can be applied to images during shooting.

P, S, A, M modes (📖48)

Select these modes for greater control over shutter speed and aperture value.

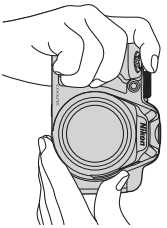
U (User settings) mode (📖53)

Setting combinations that are frequently used for shooting can be saved. The saved settings can be immediately retrieved for shooting simply by rotating the mode dial to **U**.

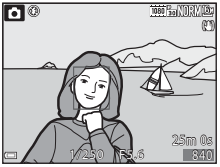
Step 3 Frame a Picture

1 Hold the camera steady.

- Keep fingers and other objects away from the lens, flash, AF-assist illuminator, microphone, and speaker.



2 Frame the picture.



Viewfinder

By pressing the |▭| button, you can shoot while looking through the viewfinder (📖7).

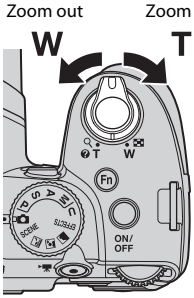
When Using a Tripod

- We recommend using a tripod to stabilize the camera in the following situations.
  - When shooting in dim lighting with the flash lowered, or in a shooting mode in which the flash is disabled
  - When using the telephoto setting
- When using a tripod to stabilize the camera during shooting, set **Vibration reduction** (📖91) to **Off** in the setup menu to prevent potential errors caused by this function.

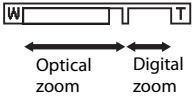
Using the Zoom

When you move the zoom control, the zoom lens position changes.

- To zoom in closer to the subject: Move toward **T** (telephoto)
- To zoom out and view a larger area: Move toward **W** (wide-angle)
- Rotating the zoom control all the way in either direction adjusts the zoom quickly.



- A zoom indicator is displayed at the top of the monitor when the zoom control is moved.
- Digital zoom, which allows you to further magnify the subject up to approximately 4× the maximum optical zoom ratio, can be activated by moving and holding the zoom control toward **T** when the camera is zoomed in to the maximum optical zoom position.



Notes About Digital Zoom

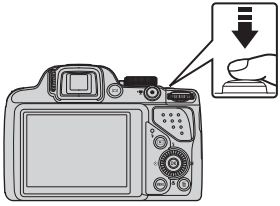
The zoom indicator turns blue when the digital zoom is activated, and it turns yellow when the zoom magnification is increased further.

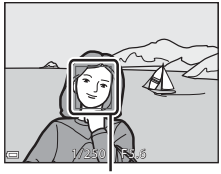
- Zoom indicator is blue: Image quality is not noticeably reduced by using the Dynamic Fine Zoom.
- Zoom indicator is yellow: Image quality is noticeably reduced.
- The indicator remains blue across a wider area when the image size is smaller.
- The zoom indicator may not turn blue depending on the continuous shooting setting, etc.

Step 4 Focus and Shoot

1 Press the shutter-release button halfway.

- When the subject is in focus, the focus area that includes the subject or focus indicator (🕮10) glows green (multiple focus areas can glow green).
- When you are using digital zoom, the camera focuses on the subject in the center of the frame and the focus area is not displayed. When the camera has focused, the focus indicator glows green.
- If the focus area or focus indicator flashes red, the camera is unable to focus. Modify the composition and try pressing the shutter-release button halfway again.





Focus area

2 Without lifting your finger, press the shutter-release button the rest of the way down.

The Shutter-release Button

Press halfway		To set focus and exposure (shutter speed and aperture value), press the shutter-release button lightly until you feel a slight resistance. Focus and exposure remain locked while the shutter-release button is pressed halfway.
Press all the way		Press the shutter-release button all the way to release the shutter and take an image. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred images. Press the button gently.

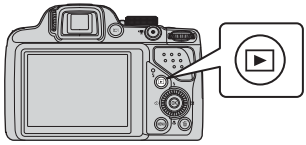
Notes About Saving Images and Recording Movies

The indicator showing the number of exposures remaining or the indicator showing the maximum movie length flashes while images are being saved or while a movie is being recorded. ***Do not open the battery-chamber/memory card slot cover or remove the battery or memory card*** while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card.

Step 5 Play Back Images

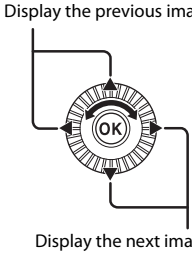
1 Press the ▶ (playback) button.

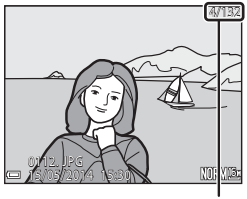
- If you press and hold down the ▶ (playback) button while the camera is turned off, the camera turns on in playback mode.



2 Use the multi selector to select an image to display.

- Press and hold down ▲▼◀▶ to scroll through the images quickly.
- Images can also be selected by rotating the multi selector.
- To return to shooting mode, press the ▶ button or shutter-release button.



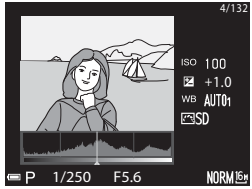


Current image number/
Total number of images

Displaying Shooting Information

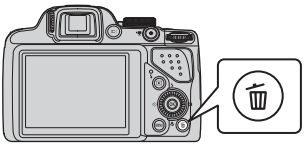
Press the OK button in full-frame playback mode to display the tone level information and shooting information (📖14).

Press the OK button again to return to full-frame playback mode.



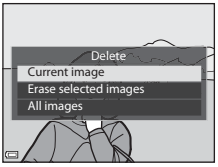
Step 6 Delete Images

1 Press the 🗑 button to delete the image currently displayed in the monitor.



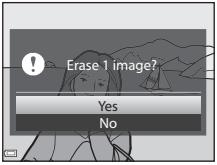
2 Use the multi selector ▲▼ to select the desired deletion method and press the OK button.

- See "Operating the Erase Selected Images Screen" (📖34) for more information.
- To exit without deleting, press the **MENU** button.



3 Select **Yes** and press the OK button.

- Deleted images cannot be recovered.
- To cancel, select **No** and press the OK button.



Operating the Erase Selected Images Screen

1 Use the multi selector ◀ ▶ to select an image to be deleted, and then use ▲ to display ✓.

- To undo the selection, press ▼ to remove ✓.
- Move the zoom control (📖29) toward **T** (🔍) to switch to full-frame playback or **W** (▦) to switch to thumbnail playback.

2 Add ✓ to all images that you want to delete and then press the OK button to confirm the selection.

- A confirmation dialog is displayed. Follow the instructions displayed in the monitor.

Deleting Images in a Sequence

- If you press the 🗑 button and delete a key picture while only key pictures are displayed for sequences of images (📖83), all images in the sequence, including the key picture, are deleted.
- To delete individual images in a sequence, press the OK button to display them one at a time and press the 🗑 button.

Deleting the Last Image Captured While in Shooting Mode

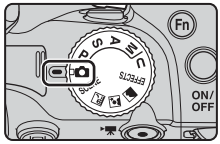
When using shooting mode, press the 🗑 button to delete the last image that was saved.

Shooting Features

(Auto) Mode

Used for general shooting.

- The camera detects the main subject and focuses on it. If a human face is detected, the camera automatically sets focus priority on it.
- See "Focusing" (76) for more information.

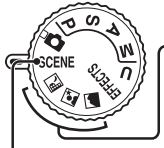


Functions Available in (Auto) Mode

- Flash mode (56)
- Self-timer (59)
- Smile timer (60)
- Focus mode (61)
- Exposure compensation (65)
- Shooting menu (68)

Scene Mode (Shooting Suited to Scenes)

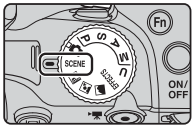
When a scene is selected, camera settings are automatically optimized for the selected scene.

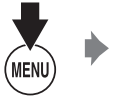


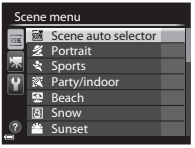
Night landscape (📖37)[1, 2], Night portrait (📖38), Landscape (📖38)[1, 2]

Rotate the mode dial to , or and take images.

SCENE (Scene)







Press the **MENU** button to display the scene menu and select one of the following scenes using the multi selector.

Scene auto selector (default setting) (📖39)	Food (📖41)
Portrait	Museum (📖41)[1]
Sports (📖39)[1]	Fireworks show (📖41)[2, 3]
Party/indoor (📖40)[1]	Black and white copy (📖41)[1]
Beach[1]	Backlighting (📖42)[1]
Snow[1]	Easy panorama (📖43)[1]
Sunset[1, 2, 3]	Pet portrait (📖44)
Dusk/dawn[1, 2, 3]	Moon (📖45)[1, 2]
Close-up (📖40)	Bird-watching (📖45)[1]

1 The camera focuses on the area in the center of the frame. The position of the area cannot be moved.

2 The camera focuses at infinity.

3 Use of a tripod is recommended, because the shutter speed is slow. Set **Vibration reduction** (📖91) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

To View a Description (Help Display) of Each Scene

Select a scene and move the zoom control (📖1) toward **T** (❓) to view a description of that scene. To return to the original screen, move the zoom control toward **T** (❓) again.

Tips and Notes

Night landscape

- Press the MENU button to select **Hand-held** or **Tripod** in **Night landscape**.
- **Hand-held** (default setting):
  - Press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting.
- **Tripod**:
  - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
  - Vibration reduction is disabled regardless of the **Vibration reduction** (📖91) setting in the setup menu.

Night portrait

- Press the MENU button to select **Hand-held** or **Tripod** in **Night portrait**.
- One image is captured at a slow shutter speed. Compared to using **Tripod**, when **Hand-held** is selected, the camera sets a slightly faster shutter speed in accordance with the shooting conditions to prevent camera shake.
- Vibration reduction is disabled regardless of the **Vibration reduction** (91) setting in the setup menu.
- The flash always fires. Raise the flash before shooting.

Landscape

- Press the MENU button to select **Noise reduction burst** or **Single shot** in **Landscape**.
- **Noise reduction burst**: This enables you to shoot a sharp landscape with a minimum of noise.
  - Press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting.
- **Single shot** (default setting): Saves images with emphasized outlines and contrast.
  - One image is captured when the shutter-release button is pressed all the way.

SCENE ➔ Scene auto selector

- When you point the camera at the subject, the camera automatically selects the optimum scene mode from the list below and adjusts the shooting settings accordingly.

	Portrait (close-up image of one to two persons)
	Portrait (shooting an image of three or more persons or shooting a composition with a large background area)
	Landscape
	Night portrait (close-up image of one to two persons)
	Night portrait (shooting an image of three or more persons or shooting a composition with a large background area)
	Night landscape • The camera shoots images continuously and combines and saves them as one image in the same way as when **Hand-held** in (night landscape) (📖37) is selected.
	Close-up
	Backlighting (shooting non-human subjects)
	Backlighting (shooting human subjects)
	Other shooting scenes

- Depending upon shooting conditions, the camera may not select the desired scene mode. Should this occur, switch to (auto) mode (📖26) or select the optimum scene mode for the subject manually.

SCENE ➔ Sports

- While the shutter-release button is held all the way down, the camera shoots up to about 7 images continuously at a rate of about 7 fps (when image quality is set to **Normal** and image size is set to **4608×3456**).
- The frame rate for continuous shooting may become slow depending upon the current image quality setting, image size setting, the memory card used, or shooting condition.
- Focus, exposure, and hue are fixed at the values determined with the first image in each series.

SCENE ➔ Party/indoor

- To avoid the effects of camera shake, hold the camera steady. Set **Vibration reduction** (📖91) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

SCENE ➔ Close-up

From the screen displayed after **Close-up** is selected, select **Noise reduction burst** or **Single shot**.

- **Noise reduction burst**: This enables you to shoot a sharp image with a minimum of noise.
  - Press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen.
  - If the subject moves or there is a significant camera shake during continuous shooting, the image may be distorted, overlapped, or blurred.
  - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting.
- **Single shot** (default setting): Saves images with emphasized outlines and contrast.
  - One image is captured when the shutter-release button is pressed all the way.
- The focus mode (📖61) setting is changed to (macro close-up) and the camera automatically zooms to the closest position at which it can focus.
- You can move the focus area. Press the OK button, use the multi selector ▲▼◀▶ or rotate it to move the focus area, and press the OK button to apply the setting.

SCENE ➔ Food

- The focus mode (61) setting is changed to (macro close-up) and the camera automatically zooms to the closest position at which it can focus.
- You can adjust hue by using the command dial. The hue setting is saved in the camera's memory even after the camera is turned off.
- You can move the focus area. Press the OK button, use the multi selector ▲▼◀▶ or rotate it to move the focus area, and press the OK button to apply the setting.

SCENE ➔ Museum

- The camera captures a series of up to 10 images while the shutter-release button is held all the way down, and the sharpest image in the series is automatically selected and saved (BSS (Best Shot Selector)).
- The flash does not fire.

SCENE ➔ Fireworks show

- The shutter speed is fixed at about 4 seconds.

SCENE ➔ Black and white copy

- Use together with (macro close-up) focus mode (61) when shooting subjects that are close to the camera.

- From the screen displayed after **Backlighting** is selected, HDR (high dynamic range) composition can be set.
- **Off** (default setting): The flash fires to prevent the subject from being hidden in shadow. Shoot images with the flash raised.
- **Level 1**-**Level 3**: Use when taking images with very bright and dark areas in the same frame. Select **Level 1** when there is less difference between bright and dark areas, and **Level 3** when there is more difference between bright and dark areas.

Notes About HDR

- Use of a tripod is recommended. Set **Vibration reduction** (📖91) in the setup menu to **Off** when using a tripod to stabilize the camera.
- The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting.
- When the shutter-release button is pressed all the way, the camera shoots images continuously and saves the following two images.
  - A non-HDR composite image
  - An HDR composite image in which the loss of details in highlights or shadows is minimized
- If there is only enough memory to save one image, an image processed by D-Lighting (📖82) at the time of shooting, in which dark areas of the image are corrected, is the only image saved.
- Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen.
- Depending on the shooting conditions, dark shadows may appear around bright subjects and bright areas may appear around dark subjects. You can compensate by lowering the level setting.

SCENE ➔ Easy panorama

- From the screen displayed after **Easy panorama** is selected, select the shooting range from **Normal (180°)** (default setting) or **Wide (360°)**.
- The zoom position is fixed at wide-angle.
- Press the shutter-release button all the way down, remove your finger from the button, and then slowly pan the camera horizontally. Shooting ends when the camera captures the specified shooting range.
- Focus and exposure are locked when shooting starts.
- If you press the OK button when a captured image is displayed in full-frame playback mode, the image scrolls automatically.
- The images cannot be edited on this camera.

See "Using Easy Panorama (Shooting and Playback)" (2) for more information.

Notes About Printing Panorama Images

The entire image may not be able to be printed depending on the printer's settings. Additionally, printing may not be possible depending on the printer.

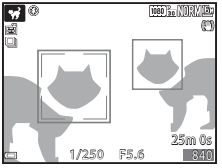
- When you point the camera at a dog or cat, the camera detects the pet's face and focuses on it. By default, the shutter is automatically released when a dog or cat face is detected (pet portrait auto release).
- From the screen displayed after **Pet portrait** is selected, select **Single** or **Continuous**.
  - **Single**: Whenever a dog or cat face is detected, the camera captures 1 image.
  - **Continuous**: Whenever a dog or cat face is detected, the camera captures 3 images continuously.

Pet Portrait Auto Release

- Press the multi selector ◀ (⏲) to change the **Pet portrait auto release** settings.
  - 📷: The camera automatically releases the shutter when it detects a dog or cat face.
  - **Off**: The camera does not release the shutter automatically, even if a dog or cat face is detected. Press the shutter-release button. The camera also detects human faces when **Off** is selected.
- **Pet portrait auto release** is set to **Off** after 5 bursts have been taken.
- Shooting is also possible by pressing the shutter-release button, regardless of the **Pet portrait auto release** setting. When **Continuous** is selected, you can take images continuously while holding down the shutter-release button all the way.

Focus Area

- When the camera detects a face, the face is displayed inside a yellow border. When the camera acquires focus on a face displayed inside a double border (focus area), the double border turns green. If no faces are detected, the camera focuses on the area in the center of the frame.
- In some shooting conditions, the pet face may not be detected and other subjects may be displayed inside a border.



SCENE ➔ Moon

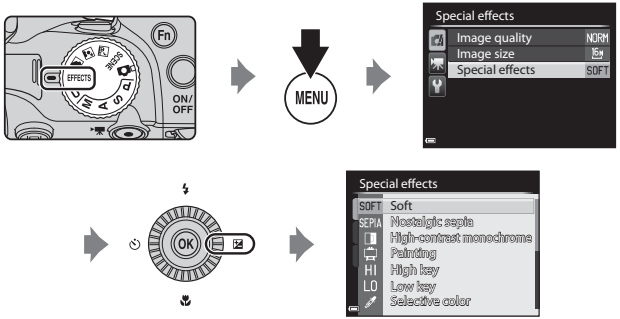
- You can adjust hue by using the command dial. The hue setting is saved in the camera's memory even after the camera is turned off.
- Adjust the brightness with exposure compensation (65) according to shooting conditions such as the waxing and waning of the moon and shooting requirements.
- At the wide-angle zoom position, the framing border is displayed to indicate the angle of view equivalent to that of 1000 mm lens (in 35mm [135] format). The angle of view becomes equivalent to that of 1000 mm lens by pressing the OK button.

SCENE ➔ Bird-watching

- From the screen displayed after **Bird-watching** is selected, select **Single** or **Continuous**.
- **Single** (default setting): One image is shot each time the shutter-release button is pressed.
- **Continuous**: While the shutter-release button is held all the way down, images are captured continuously.
  - The frame rate for continuous shooting is about 7 fps and the maximum number of continuous shots is about 7 (when image quality is set to **Normal** and image size is set to **16M 4608×3456**).
- At the wide-angle zoom position, the framing border is displayed to indicate the angle of view equivalent to that of 500 mm lens (in 35mm [135] format). The angle of view becomes equivalent to that of 500 mm lens by pressing the OK button.

Special Effects Mode (Applying Effects When Shooting)

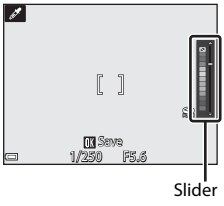
Effects can be applied to images during shooting.



Press the **MENU** button to display the special effects menu and select an effect using the multi selector.

- The camera focuses on the area in the center of the frame. The position of the area cannot be moved.

Option	Description
Soft (default setting)*	Softens the image by adding a slight blur to the entire image.
Nostalgic sepia*	Adds a sepia tone and reduces the contrast to simulate the qualities of an old photograph.
High-contrast monochrome	Creates a black-and-white photograph with a clear contrast.
Painting*	Gives the image a painting-like appearance.
High key	Gives the entire image a bright tone.
Low key	Gives the entire image a dark tone.

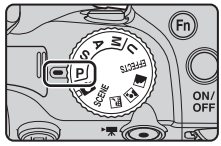
Option	Description
Selective color	Keeps only a selected color and makes other colors black-and-white. • Rotate the command dial to select a color that you want to retain from the slider. • Press the OK button to hide the slider and end color selection. To display the slider again, press the OK button again.  Slider
High ISO monochrome	Creates monotone (black-and-white) images by intentionally taking images with high ISO sensitivity. This setting is effective when shoots subjects in low lighting conditions. • The images taken may contain noise (randomly-spaced bright pixels, spots or lines).
Cross process	Creates images with an unusual hue by converting a positive color image into negative or negative color image into positive. • Rotate the command dial to select hue.

* Some effects cannot be selected depending on the setting of **Movie options** (📖89).

Functions Available in Special Effects Mode

- Flash mode (📖56)
- Self-timer (📖59)
- Focus mode (📖61)
- Exposure compensation (📖65)
- Shooting menu (📖68)

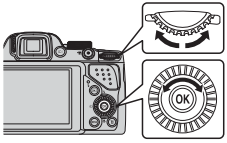
P, S, A, M Modes (Setting the Exposure for Shooting)

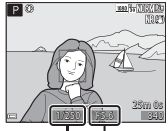


Images can be shot with greater control by setting the shooting menu (🕮68) items in addition to setting the shutter speed or aperture value manually according to shooting conditions and requirements.

- The focus area for autofocus differs depending on the setting of **AF area mode** (🕮69).
- When **AF area mode** is set to **Target finding AF** (default setting), the camera detects the main subject and focuses on it.

Rotate the command dial or multi selector to set the shutter speed and aperture value.





Exposure mode		Shutter speed (🕮52)	Aperture value (🕮49)
P	Programmed auto (🕮50)	Automatically adjusted (flexible program is enabled by the command dial).	
S	Shutter-priority auto (🕮50)	Adjusted by the command dial.	Automatically adjusted.
A	Aperture-priority auto (🕮50)	Automatically adjusted.	Adjusted by the multi selector.
M	Manual (🕮50)	Adjusted by the command dial.	Adjusted by the multi selector.

More Information

See "Toggle Av/Tv selection" (🕮92) for more information.

Exposure

The procedure for shooting images at the desired brightness (exposure) by adjusting the shutter speed or aperture value is called "determine exposure." The sense of dynamism and amount of background defocus in images to be shot vary depending on the combinations of shutter speed and aperture value even if the exposure is the same.

Adjusting the Shutter Speed

In **S** mode, the range is from a maximum of 1/4000 to 8 seconds.
In **M** mode, the range is from a maximum of 1/4000 to 15 seconds.
See "The Control Range of the Shutter Speed" (📖52) for more information.

Faster 1/1000 s

Slower 1/30 s

Adjusting the Aperture Value

In **A** and **M** modes, the range is from f/3 to 8.3 (wide-angle position) and from f/5.9 to 8.3 (telephoto zoom position).

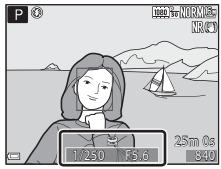
Larger aperture (Small f-number)
f/3

Smaller aperture (Large f-number)
f/8.3

Aperture Value (F-number) and Zoom

Large apertures (expressed by small f-numbers) let more light into the camera, and small apertures (large f-numbers) let less light.
The aperture value of the zoom lens of this camera changes depending on the zoom position. When zooming to the wide-angle position and telephoto zoom position, the aperture values are f/3 and f/5.9, respectively.

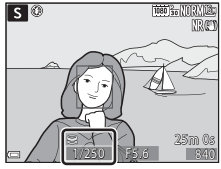
P (Programmed auto)



Use for automatic control of the exposure by the camera.

- Different combinations of shutter speed and aperture value can be selected without changing the exposure by rotating the command dial ("flexible program"). While flexible program is in effect, a flexible program mark (✱) is displayed next to the mode indicator (**P**) in the upper left of the monitor.
- To cancel flexible program, rotate the command dial until the flexible program mark (✱) is no longer displayed. Selecting another shooting mode, or turning off the camera, also cancels flexible program.

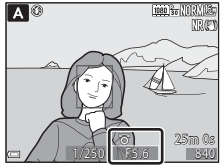
S (Shutter-priority auto)



Use to shoot fast-moving subjects at a fast shutter speed, or use to emphasize the movements of a moving subject at a slow shutter speed.

- The shutter speed can be adjusted by rotating the command dial.

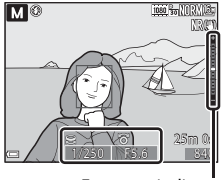
A (Aperture-priority auto)



Use to bring subjects including both the foreground and background into focus or blur the subject's background intentionally.

- The aperture value can be adjusted by rotating the multi selector.

M (Manual)



Exposure indicator

Use to control the exposure according to shooting requirements.

- When adjusting the aperture value or shutter speed, the degree of deviation from the exposure value measured by the camera is displayed in the exposure indicator of the monitor. The degree of deviation in the exposure indicator is displayed in EVs (–2 to +2 EV in increments of 1/3 EV).
- The shutter speed can be adjusted by rotating the command dial and the aperture value can be adjusted by rotating the multi selector.

Notes About Shooting

- When zooming is performed after the exposure is set, exposure combinations or aperture value may be changed.
- When the subject is too dark or too bright, it may not be possible to obtain the appropriate exposure. In such cases, the shutter speed indicator or aperture value indicator flashes when the shutter-release button is pressed halfway (except when the **M** mode is used). Change the shutter speed setting or aperture value.

Notes About ISO Sensitivity

When **ISO sensitivity** (📖69) is set to **Auto** (default setting) or **Fixed range auto**, the ISO sensitivity in **M** mode is fixed at ISO 100.

Functions Available in P, S, A, M Modes

- Flash mode (📖56)
- Self-timer (📖59)
- Smile timer (📖60)
- Focus mode (📖61)
- Exposure compensation (📖65)
- Shooting menu (📖68)
- Functions That Can Be Set Using the Fn (Function) Button (📖71)
- Setup menu (📖91)

The Control Range of the Shutter Speed

The control range of the shutter speed differs depending on the zoom position, aperture, or ISO sensitivity setting. Additionally, the control range changes in the following continuous shooting settings.

Setting		Control range
ISO sensitivity (📖69)[1]	Auto[2], Fixed range auto[2]	1/4000[3] - 1 s (**P**, **S**, **A** modes) 1/4000[3] - 15 s (**M** mode)
	ISO 100	1/4000[3] - 8 s (**P**, **S**, **A** modes) 1/4000[3] - 15 s (**M** mode)
	ISO 200	1/4000[3] - 4 s (**P**, **S**, **A** modes) 1/4000[3] - 8 s (**M** mode)
	ISO 400	1/4000[3] - 4 s
	ISO 800	1/4000[3] - 2 s
	ISO 1600	1/4000[3] - 1 s
	ISO 3200, 6400	1/4000[3] - 1/2 s
Continuous (📖69)	Continuous H, Continuous L, BSS	1/4000[3] - 1/30 s
	Pre-shooting cache, Multi-shot 16	1/4000 - 1/30 s
	Continuous H: 120 fps	1/4000 - 1/125 s
	Continuous H: 60 fps	1/4000 - 1/60 s
	Intvl timer shooting	Same as when **Single** is set

1 The ISO sensitivity setting is restricted depending on the continuous shooting setting (📖72).

2 In **M** mode, the ISO sensitivity is fixed at ISO 100.

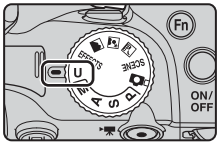
3 The maximum shutter speed value is 1/4000 second when the aperture value is set to f/6.6 to f/8.3 at the maximum wide-angle position. The shutter speed becomes slower when the zoom position moves to the telephoto zoom position and the aperture is larger. The shutter speed is 1/2500 second when the aperture value is set to maximum f/8.3 at the maximum telephoto zoom position.

U (User Settings) Mode

Setting combinations that are frequently used for shooting (User settings) can be saved in **U**. Shooting is possible in **P** (programmed auto), **S** (shutter-priority auto), **A** (aperture-priority auto) or **M** (manual).

Rotate the mode dial to **U** to retrieve the settings saved in **Save user settings**.

- Frame the subject and shoot with these settings, or change the settings as required.
- The setting combinations that are retrieved when the mode dial is rotated to **U** can be changed as many times as you want in **Save user settings**.



The following settings can be saved.

General Settings

- Shooting modes **P**, **S**, **A**, **M** (📖48)
- Zoom position (📖29)
- Flash mode (📖56)
- Self-timer (📖59)
- Focus mode (📖61)
- Exposure compensation (📖65)
- Fn button (📖71)

Shooting menu

- Image quality (📖68)
- Image size (📖68)
- Picture Control (📖68)
- Custom Picture Control (📖68)
- White balance (📖68)
- Metering (📖69)
- Continuous (📖69)
- ISO sensitivity (📖69)
- Exposure bracketing (📖69)
- AF area mode (📖69)
- Autofocus mode (📖69)
- Flash exp. comp. (📖69)
- Noise reduction filter (📖69)
- Active D-Lighting (📖69)
- Multiple exposure (📖69)
- Zoom memory (📖70)
- Startup zoom position (📖70)
- M exposure preview (📖70)

Saving Settings in U Mode (Save User Settings)

The frequently used settings for shooting can be changed and saved in **U**.

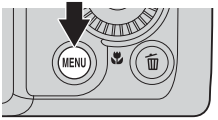
1 Rotate the mode dial to the original shooting mode.

- Rotate the mode dial to **P**, **S**, **A** or **M** (📖48). The flexible program (when set to **P**), shutter speed (when set to **S** or **M**) or aperture value (when set to **A** or **M**) will also be saved.
- Settings can also be saved by rotating the mode dial to **U** (the default settings for the shooting mode **P** are saved at the time of purchase).

2 Change to a frequently used combination of shooting settings.

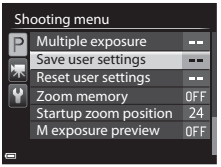
- See 📖53 for settings details.

3 Press the MENU button to display the shooting menu.



4 Use the multi selector to select **Save user settings**, and press the OK button.

- The **Done** screen is displayed and the current settings are saved.



The Clock Battery

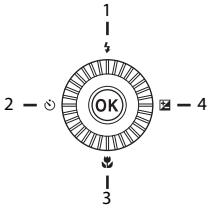
If the internal clock battery (📖25) is exhausted, the settings saved in **U** will be reset. Writing down any important setting is recommended.

Resetting U (User Settings) Mode

If **Reset user settings** is selected in the shooting menu, the settings that are saved in the user settings are restored to their default values. The shooting mode is set to **P**.

Functions That Can Be Set Using the Multi Selector

The functions that are available vary with the shooting mode, as shown below.



Function			SCENE,	EFFECTS	P, S, A, M, U
1	Flash mode (📖56)	✔	1	[1]	✔
2	Self-timer (📖59)	✔	1	✔	✔
2	Smile timer (📖60)	✔	1	–	✔
3	Focus mode (📖61)	✔	1	✔	✔
4	Exposure compensation (📖65)	✔	1	✔	✔[2]

[1] Availability depends on the setting. See "Default Settings" (📖66) for more information.

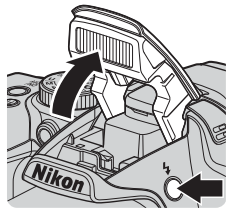
[2] When the shooting mode is **M**, exposure compensation cannot be used.

Using the Flash

You can shoot images with a flash by raising the built-in flash. You can set the flash mode to match the shooting conditions.

1 Press the ⚡ (flash pop-up) button to raise the flash.

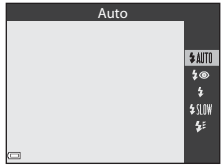
- When the flash is lowered, flash operation is disabled and ⊗ is displayed.



2 Press the multi selector ▲ (⚡).

3 Select the desired flash mode (📖57) and press the ⊛ button.

- If a setting is not applied by pressing the ⊛ button within a few seconds, the selection will be canceled.



The Flash Lamp

The status of the flash can be confirmed by pressing the shutter-release button halfway.

- On: The flash fires when you press the shutter-release button all the way down.
- Flashing: The flash is charging. The camera cannot shoot images.
- Off: The flash does not fire when an image is taken.

Available Flash Modes

AUTO	Auto
	The flash fires when necessary, such as in dim lighting. • The flash mode indicator is only displayed immediately after setting in the shooting screen.
	Auto with red-eye reduction/Red-eye reduction
	Reduce red-eye in portraits caused by the flash (📖58). • When **Red-eye reduction** is selected, the flash fires whenever an image is taken.
	Fill flash/Standard flash
	The flash fires whenever an image is taken.
SLOW	Slow sync
	Suited to evening and night portraits that include background scenery. Fill flash fires to illuminate the main subject; slow shutter speeds are used to capture background at night or under dim lighting.
	Rear-curtain sync
	Fill flash fires just before the shutter closes, creating the effect of a stream of light behind moving subjects.

The Flash Mode Setting

- The available flash modes differ depending on the shooting mode.

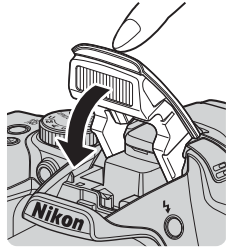
Flash mode		📷	SCENE, 🖼, 🖼, 🏞	EFFECTS	P	S	A	M
AUTO	Auto	✔	*	*	–	–	–	–
👁	Auto with red-eye reduction	✔			–	–	–	–
	Red-eye reduction	–			✔	✔	✔	✔
⚡	Fill flash	✔			–	–	–	–
	Standard flash	–			✔	✔	✔	✔
SLOW	Slow sync	✔			✔	–	✔	–
	Rear-curtain sync	✔			✔	✔	✔	✔

* Availability depends on the setting. See "Default Settings" (📖66) for more information.

- The setting applied in the following situations is saved in the camera's memory even after the camera is turned off.
  - When shooting mode **P**, **S**, **A** or **M** is used
  - When 👁 (auto with red-eye reduction) is selected in 📷 (auto) mode

Lowering the Flash

When not using the flash, gently push to lower the flash until it clicks shut.



Auto with Red-eye Reduction/Red-eye Reduction

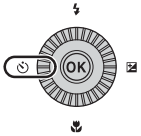
If the camera detects red-eye while saving an image, the affected area is processed to reduce red-eye before the image is saved.
Note the following when shooting:

- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in all situations.
- In some cases, red-eye reduction may be applied to areas of an image unnecessarily. In these cases, select another flash mode and take the image again.

Using the Self-timer

The camera is equipped with a self-timer that releases the shutter about 10 seconds or 2 seconds after you press the shutter-release button. Set **Vibration reduction** (📖91) to **Off** in the setup menu when using a tripod to stabilize the camera during shooting.

1 Press the multi selector ◀ (⏲).



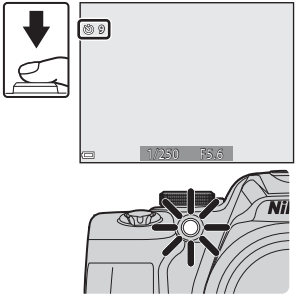
2 Select ⏲**10s** (or ⏲**2s**), and press the OK button.

- ⏲**10s** (10 seconds): Use on important occasions, such as weddings.
- ⏲**2s** (2 seconds): Use to prevent camera shake.
- If a setting is not applied by pressing the OK button within a few seconds, the selection will be canceled.
- When the shooting mode is **Pet portrait** scene mode, 🐕 (pet portrait auto release) is displayed (📖44). The self-timer cannot be used.

3 Frame the picture and press the shutter-release button halfway.

- Focus and exposure are set.

4 Press the shutter-release button the rest of the way down.



- Countdown starts. The self-timer lamp flashes and then glows steadily about one second before the shutter is released.
- When the shutter is released, the self-timer is set to **OFF**.
- To stop the countdown, press the shutter-release button again.

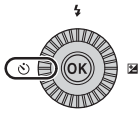
Shooting Smiling Faces Automatically (Smile Timer)

When the camera detects a smiling face, you can take an image automatically without pressing the shutter-release button.

- This function can be used when the shooting mode is (auto), **P**, **S**, **A**, **M** or **U**, or **Portrait** or **Night portrait** scene mode.

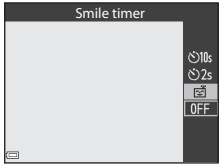
1 Press the multi selector ◀ (⏲).

- Change any flash mode, exposure, or shooting menu settings before pressing ◀.



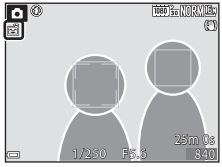
2 Select (smile timer), and press the OK button.

- If a setting is not applied by pressing the OK button within a few seconds, the selection will be canceled.



3 Frame the picture and wait for the subject to smile without pressing the shutter-release button.

- Point the camera at a human face.
- If the camera detects that the face framed by the double border is smiling, the shutter is automatically released.
- Whenever the camera detects a smiling face, it automatically releases the shutter.



4 End automatic shooting.

- To end automatic shooting with smile timer, return to step 1 and select **OFF**.

Notes About Smile Timer

Under some shooting conditions, the camera may be unable to detect faces or detect smiles (📖77). The shutter-release button can also be used for shooting.

When the Self-timer Lamp Flashes

When using smile timer, the self-timer lamp flashes when the camera detects a face and flashes quickly immediately after the shutter is released.

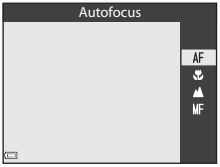
Using Focus Mode

Set the focus mode according to the distance to the subject.

1 Press the multi selector ▼ (🌷).

2 Select the desired focus mode and press the OK button.

- If a setting is not applied by pressing the OK button within a few seconds, the selection will be canceled.



Available Focus Modes

AF	Autofocus

The camera automatically adjusts the focus according to the distance to the subject. Use when the distance from the subject to the lens is 50 cm (1 ft 8 in.) or more, or 2.0 m (6 ft 7 in.) or more at the maximum telephoto zoom position.

- The focus mode icon on the shooting screen is displayed only immediately after the setting is made.

	Macro close-up

Set when taking close-up images.
When the zoom ratio is set to a position where and the zoom indicator glow green, the camera can focus on subjects as close as approximately 10 cm (4 in.) from the lens. When the zoom is at the position where is displayed, the camera can focus on subjects as close as approximately 1 cm (0.4 in.) from the lens.

	Infinity

Use when shooting distant scenes through window glass or when shooting landscapes.
The camera automatically adjusts the focus near infinity.

- The camera may not be able to focus on nearby objects.
- The flash mode is set to (off).

MF	Manual focus

The focus can be adjusted on any subject at a distance from approximately 1 cm (0.4 in.) to infinity from the lens (63). The closest distance at which the camera can focus varies depending on the zoom position.

Notes About Shooting with the Flash

The flash may be unable to light the entire subject at distances of less than 50 cm (1 ft 8 in.).

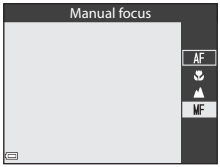
Focus Mode Setting

- The setting may not be available with some shooting modes.
- For shooting modes **P**, **S**, **A** and **M**, the setting is saved in the camera's memory even after the camera is turned off.

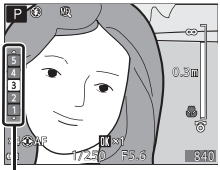
Taking Images with Manual Focus

Available when the shooting mode is **P**, **S**, **A**, **M** or **U**, special effects mode, or **Sports** or **Bird-watching** scene mode.

1 Press the multi selector ▼ (), select MF (manual focus), and then press the OK button.



2 Use the multi selector to adjust the focus while checking the enlarged view.

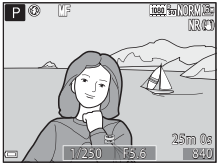


Peaking level

- An enlarged view of the center area of the image is displayed. Press ◀ to switch the view between 2× and 4×.
- Rotate the multi selector clockwise to focus on near subjects, or counterclockwise to focus on far subjects. The focus can be adjusted in higher detail by rotating the multi selector slowly or rotating the command dial.
- When ▶ is pressed, the camera focuses on the subject in the center of the frame with autofocus. First the camera focuses with autofocus, and then the manual focus can be operated.
- Focusing is assisted by highlighting areas that are in focus in white (peaking) (64). Press ▲▼ to adjust the peaking level.
- Press the shutter-release button halfway to frame the picture. Press the shutter-release button all the way to take the image.

3 Press the OK button.

- The set focus is locked.
- Press the shutter-release button all the way to take the image.
- To readjust the focus, press the OK button to display the screen in step 2.



MF (Manual Focus)

- The digits displayed for the gauge on the right of the monitor in step 2 serve as a guideline for the distance to a subject that is in focus when the gauge is near the center.
- The actual range at which the subject can be in focus varies depending on the aperture value and zoom position. To see whether the subject is in focus, check the image after shooting.

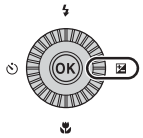
Notes About Peaking

- The range of the contrast level considered to be in focus can be changed by adjusting the peaking level. It is effective to set the level low for high contrast subjects, and high for low contrast subjects.
- Peaking highlights high contrast areas of the image in white. Depending on the shooting conditions, highlighting may not work properly or areas that are not in focus may be highlighted.
- You can disable the peaking display using **Peaking** in the setup menu (92).

Adjusting Brightness (Exposure Compensation)

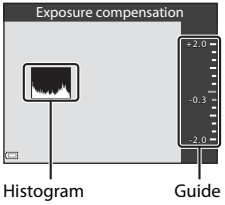
You can adjust overall image brightness.

1 Press the multi selector ▶ (⊠).



2 Select a compensation value and press the ⓞ button.

- To brighten the image, set a positive (+) value.
- To darken the image, set a negative (–) value.
- The compensation value is applied, even without pressing the ⓞ button.



Exposure Compensation Value

- The value applied in **P**, **S** or **A** mode is saved in the camera's memory even after the camera is turned off.
- When the shooting mode is **Fireworks show** scene mode (📖41) or **M** (manual) (📖50), exposure compensation cannot be used.
- When the exposure compensation is set while using a flash, the compensation is applied to both the background exposure and to the flash output.

Using the Histogram

A histogram is a graph showing the distribution of tones in the image. Use as a guide when using exposure compensation and shooting without the flash.

- The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.
- Increasing exposure compensation value shifts tone distribution to the right, and decreasing it shifts tone distribution to the left.

Default Settings

The default settings for each shooting mode are described below.

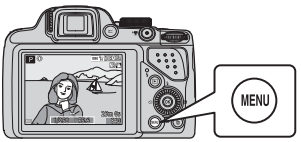
Shooting mode	Flash mode (📖56)	Self-timer (📖59)	Focus mode (📖61)	Exposure compensation (📖65)
(auto)	AUTO	OFF[1]	AF[2]	0.0
EFFECTS (special effects)	[3]	OFF	AF	0.0
P, **S**, **A**, **M**		OFF[1]	AF	0.0
U (user settings)		OFF[1]	AF	0.0
Scene				
(night landscape)	[4]	OFF	[4]	0.0
(night portrait)	[5]	OFF[1]	AF[4]	0.0
(landscape)	[4]	OFF	[4]	0.0
(scene auto selector)	AUTO[6]	OFF	AF[4]	0.0
(portrait)		OFF[1]	AF[4]	0.0
(sports)	[4]	OFF[4]	AF[7]	0.0
(party/indoor)	[8]	OFF	AF[4]	0.0
(beach)	AUTO	OFF	AF[9]	0.0
(snow)	AUTO	OFF	AF[9]	0.0
(sunset)	[4]	OFF	[4]	0.0
(dusk/dawn)	[4]	OFF	[4]	0.0
(close-up)	[10]	OFF	[4]	0.0
(food)	[4]	OFF	[4]	0.0
(museum)	[4]	OFF	AF[9]	0.0
(fireworks show)	[4]	OFF[4]	[4]	0.0[4]
(black and white copy)		OFF	AF[9]	0.0
(backlighting)	/[11]	OFF	AF[4]	0.0

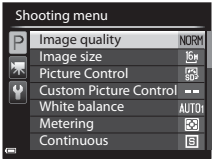
Shooting mode	Flash mode (📖56)	Self-timer (📖59)	Focus mode (📖61)	Exposure compensation (📖65)
(easy panorama)	[4]	OFF[4]	AF[4]	0.0
(pet portrait)	[4]	[12]	AF[9]	0.0
(moon)	[4]	**2s**	[4]	0.0
(bird-watching)	[4]	OFF	AF[13]	0.0

1 Smile timer can also be selected.
2 MF (manual focus) cannot be selected.
3 The flash is fixed at (off) when High ISO monochrome is selected.
4 The setting cannot be changed.
5 The setting cannot be changed. The flash mode setting is fixed at fill flash with slow sync and red-eye reduction.
6 The setting cannot be changed. The camera automatically selects the flash mode appropriate for the scene it has selected.
7 AF (autofocus) or MF (manual focus) can be selected.
8 May switch to slow sync with red-eye reduction flash mode.
9 AF (autofocus) or (macro close-up) can be selected.
10 The flash is fixed at (off) when **Noise reduction burst** is selected.
11 When **HDR** is set to **Off**, the flash mode is fixed at (fill flash). When **HDR** is set to any setting other than **Off**, the flash mode is fixed at (off).
12 Pet portrait auto release (📖44) can be set to on or off. Self-timer cannot be used.
13 (macro close-up) cannot be selected.

Functions That Can Be Set with the MENU Button (Shooting Menu)

The settings listed below can be changed by pressing the **MENU** button during shooting.





Common Options

Option	Description	🕮
Image quality	Allows you to set the image quality (compression ratio) of images to be saved. • Default setting: **Normal**	22
Image size	Allows you to set the image size of images to be saved. • Default setting: **4608×3456**	23

For P, S, A, M, U Modes

Option	Description	🕮
Picture Control (COOLPIX Picture Control)	Allows you to change the settings for image recording according to the shooting scene or your preferences. • Default setting: **Standard**	24
Custom Picture Control (COOLPIX Custom Picture Control)	Allows you to customize the settings of COOLPIX Picture Control and register them in **Custom 1** or **Custom 2** of **Picture Control**.	28
White balance	Allows you to adjust white balance to suit the weather conditions or light source in order to make the colors in images match what you see with your eyes. • Default setting: **Auto (normal)**	29

Option	Description	🕮
Metering	Allows you to set the method that the camera uses to measure the brightness of the subject. • Default setting: **Matrix**	32
Continuous	Allows you to select single or continuous shooting. • Default setting: **Single**	33
ISO sensitivity	Allows you to control the camera's sensitivity to light. • Default setting: **Auto** When **Auto** is selected, ISO is displayed in the monitor while shooting if ISO sensitivity increases. • In **M** (manual) mode, when set to **Auto** or **Fixed range auto**, the ISO sensitivity is fixed at ISO 100.	37
Exposure bracketing	The exposure (brightness) can be changed automatically during continuous shooting. • Default setting: **Off**	38
AF area mode	Allows you to change the method of how the camera selects the focus area for autofocus. • Default setting: **Target finding AF**	39
Autofocus mode	Allows you to select either **Single AF**, which focuses only when the shutter-release button is pressed halfway, or **Full-time AF**, which continues focusing even when the shutter-release button is not pressed halfway. • Default setting: **Single AF**	42
Flash exp. comp.	Allows you to adjust the flash output. • Default setting: **0.0**	42
Noise reduction filter	Allows you to set the strength of the noise reduction function that is normally performed when saving images. • Default setting: **Normal**	43
Active D-Lighting	Allows you to prevent loss of contrast details in highlights and shadows and well reproduce the natural contrast that is seen with the naked eye when shooting images. • Default setting: **Off**	43
Multiple exposure	Allows you to combine two to three images and save them as a single image. • Default setting: - **Multiple exposure mode**: **Off** - **Auto gain**: **On**	44
Save user settings	Allows you to save the current settings in mode dial **U** (🕮53).	54

Option	Description	🕮
Reset user settings	Allows you to reset the settings saved to mode dial **U**.	54
Zoom memory	When the zoom control is moved, the zoom position (equivalent to focal length/angle of view in 35mm [135] format) is switched to the positions that have been selected by setting the check box to on in this menu option. • Default setting: **Off**	🕶46
Startup zoom position	Allows you to set the zoom position (equivalent to focal length/angle of view in 35mm [135] format) for when the camera is turned on. • Default setting: **24 mm**	🕶47
M exposure preview	Allows you to set whether or not to reflect the brightness to the shooting screen when the exposure is changed in **M** (manual) mode. • Default setting: **Off**	🕶47

Functions That Can Be Set with the Fn (Function) Button

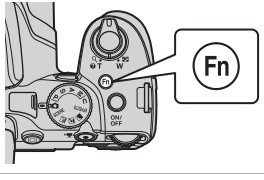
The following functions can be also set by pressing the Fn (function) button instead of displaying the corresponding menu by pressing the MENU button.

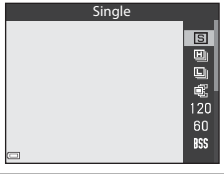
- This function can be used when the shooting mode is **P**, **S**, **A**, **M** or **U**.

Image quality (📖68)	Continuous (📖69)
Image size (📖68)	ISO sensitivity (📖69)
Picture Control (📖68)	AF area mode (📖69)
White balance (📖68)	Vibration reduction (📖91)
Metering (📖69)	

1 Press the Fn (function) button when the shooting screen is displayed.

- The **Fn button** function menu or the setting items of the function (default setting is **Continuous**) that was last assigned to the Fn (function) button can be selected.





2 Use the multi selector to select a menu item.

- To assign another function, select the **Fn button** function menu and press the OK button. Then, select the desired function from the displayed menu.

3 After you finish assigning the function, press the OK button or Fn (function) button.

- The camera returns to the shooting screen.

Functions That Cannot Be Used Simultaneously

Some functions cannot be used with other menu settings.

Restricted function	Setting	Description
Flash mode	Focus mode (📖61)	When ▲ (infinity) is selected, the flash is not available.
	Continuous (📖69)	The flash is not available (except for interval timer shooting).
	Exposure bracketing (📖69)	The flash is not available.
Self-timer/ Smile timer	AF area mode (📖69)	When **Subject tracking** is selected, the self-timer/smile timer is not available.
Focus mode	Smile timer (📖60)	When smile timer is selected, the focus mode is fixed at AF (autofocus).
	AF area mode (📖69)	When **Subject tracking** is selected, MF (manual focus) is not available.
Image quality	Continuous (📖69)	When **Pre-shooting cache** is selected, **Image quality** is fixed at **Normal**.
Image size	Continuous (📖69)	• When **Pre-shooting cache** is selected, **Image size** is fixed at 3M (2048 × 1536 pixels). • When **Continuous H: 120 fps** is selected, **Image size** is fixed at VGA **640×480** and when **Continuous H: 60 fps** is selected, **Image size** is fixed at 16:9 2M **1920×1080**. • When **Multi-shot 16** is selected, **Image size** is fixed at 5M (2560 × 1920 pixels).
Picture Control	Active D-Lighting (📖69)	When using **Active D-Lighting**, **Contrast** in manual adjustment cannot be adjusted.
White balance	Picture Control (📖68)	When **Monochrome** is selected, **White balance** is fixed at **Auto (normal)**.
Metering	Active D-Lighting (📖69)	When **Active D-Lighting** is set to any mode other than **Off**, **Metering** is reset to **Matrix**.

Restricted function	Setting	Description
Continuous/ Exposure bracketing	Continuous (📖69)/ Exposure bracketing (📖69)	**Continuous** and **Exposure bracketing** are not available simultaneously.
	Self-timer (📖59)	When self-timer is used, a single image is shot even if **Continuous H**, **Continuous L**, **Pre-shooting cache**, or **BSS** has been set.
	Smile timer (📖60)	When the camera detects smiling faces and the shutter is released, only one image is shot. If **Intvl timer shooting** is set, shooting finishes automatically after one image is shot.
	Picture Control (📖68)	When **Monochrome** is selected, **Exposure bracketing** is not available.
	Multiple exposure (📖69)	Not available simultaneously.
ISO sensitivity	Continuous (📖69)	When **Pre-shooting cache**, **Multi-shot 16**, **Continuous H: 120 fps** or **Continuous H: 60 fps** is selected, **ISO sensitivity** is fixed at **Auto**.
AF area mode	Smile timer (📖60)	The camera captures images using face detection regardless of the applied **AF area mode** option.
	Focus mode (📖61)	• When a setting other than **Subject tracking** is selected and ▲ (infinity) is selected as the focus mode for shooting, the camera focuses at infinity regardless of the applied **AF area mode** option. • When set to MF (manual focus), the AF area mode cannot be set.
	Picture Control (📖68)	When **Target finding AF** is selected and **Picture Control** is set to **Monochrome**, the camera focuses on a face or selects one or more of the 9 focus areas containing the subject closest to the camera.
	White balance (📖68)	When **Target finding AF** is selected, and if the white balance is set to **Preset manual**, **Incandescent**, **Fluorescent** or **Choose color temp.**, or fine adjustment of white balance is performed, the camera focuses on a face or selects one or more of the 9 focus areas containing the subject closest to the camera.

Restricted function	Setting	Description
Autofocus mode	Smile timer (📖60)	Autofocus mode option cannot be changed when the smile timer is selected.
	Focus mode (📖61)	When the focus mode is set to ▲ (infinity), the autofocus mode operates using the **Single AF** setting.
	AF area mode (📖69)	When **AF area mode** is set to **Face priority**, **Subject tracking** or **Target finding AF**, **Single AF** is automatically selected.
Multiple exposure	Continuous (📖69)	Not available simultaneously.
	Exposure bracketing (📖69)	Not available simultaneously.
Print date	Continuous (📖69)	When **Pre-shooting cache**, **Continuous H: 120 fps** or **Continuous H: 60 fps** is selected, date cannot be imprinted on images.
Digital zoom	Smile timer (📖60)	When the smile timer is selected, digital zoom is not available.
	Continuous (📖69)	When **Multi-shot 16** is selected, digital zoom is not available.
	AF area mode (📖69)	When **Subject tracking** is selected, digital zoom is not available.
	Zoom memory (📖70)	When **Zoom memory** is set to **On**, digital zoom is not available.
Sound settings	Continuous (📖69)	When **Continuous H**, **Continuous L**, **Pre-shooting cache**, **Continuous H: 120 fps**, **Continuous H: 60 fps**, **BSS**, or **Multi-shot 16** is selected, shutter sound is disabled.
	Exposure bracketing (📖69)	Shutter sound is disabled.

Restricted function	Setting	Description
Blink warning	Smile timer (📖60)	When the smile timer is selected, blink warning is not available.
	Continuous (📖69)	When an option other than **Single** is selected, blink warning is not available.
	Exposure bracketing (📖69)	When an option other than **Off** is selected, blink warning is not available.
	Multiple exposure (📖69)	When **Multiple exposure mode** is set to **On**, blink warning is not available.

Notes About Digital Zoom

- Depending on the shooting mode or the current settings, digital zoom may not be available (👓67).
- When digital zoom is in effect, selectable options for AF area mode or metering mode are restricted.

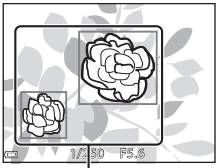
Focusing

The focus area varies depending on the shooting mode.

Using the Target Finding AF

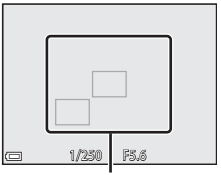
In 📷 (auto) mode, or when **AF area mode** (📖69) in **P**, **S**, **A**, **M** or **U** mode is set to **Target finding AF**, the camera focuses in the manner described below when you press the shutter-release button halfway.

- The camera detects the main subject and focuses on it. When the subject is in focus, the focus area glows green.
  If a human face is detected, the camera automatically sets focus priority on it.



Focus areas

- If no main subject is detected, the camera automatically selects one or more of the 9 focus areas containing the subject closest to the camera. When the subject is in focus, the focus areas that are in focus glow green.



Focus areas

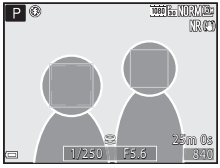
Notes About Target Finding AF

- Depending on shooting conditions, the subject that the camera determines to be the main subject may vary.
- The main subject may not be detected when using certain **White balance** or **Picture Control** settings.
- The camera may not detect the main subject appropriately in the following situations:
  - When the subject is very dark or bright
  - When the main subject lacks clearly defined colors
  - When the shot is framed so that the main subject is on the edge of the monitor
  - When the main subject is composed of a repeating pattern

Using Face Detection

In the following settings, the camera uses face detection to automatically focus on human faces.

- (night portrait), **Scene auto selector** or **Portrait** scene mode (📖36)
- (smile timer) (📖60)
- When **AF area mode** (📖69) is set to **Face priority**



If the camera detects more than one face, a double border is displayed around the face that the camera focuses on, and single borders are displayed around the other faces.

If the shutter-release button is pressed halfway when no faces are detected:

- When **Scene auto selector** is selected, the focus area changes depending on the scene.
- In (night portrait) and **Portrait**, the camera focuses on the area in the center of the frame.
- When (smile timer) is selected, the camera focuses on the subject in the center of the frame.
- When **AF area mode** is set to **Face priority**, the camera selects the focus area containing the subject closest to the camera.

Notes About Face Detection

- The camera's ability to detect faces depends on a variety of factors, including the direction in which the faces are looking.
- The camera may be unable to detect faces in the following situations:
  - When faces are partially hidden by sunglasses or otherwise obstructed
  - When faces take up too much or too little of the frame

Viewing Images Taken Using Face Detection

During playback, the camera automatically rotates images according to the orientation of the faces that were detected at the time of shooting (except for images taken using **Continuous** (📖69) or **Exposure bracketing** (📖69)).

Using Skin Softening

When the shutter is released while using one of the shooting modes listed below, the camera detects human faces and processes the image to soften facial skin tones (up to 3 faces).

- (night portrait), **Scene auto selector** or **Portrait** scene mode (36)

Skin softening can also be applied to saved images (82).

Notes About Skin Softening

- It may take more time than usual to save images after shooting.
- Under some shooting conditions, the desired skin softening results may not be achieved, and skin softening may be applied to areas of the image where there are no faces.

Subjects Not Suitable for Autofocus

The camera may not focus as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the focus area or focus indicator glows green:

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun behind the subject makes that subject appear very dark)
- No contrast between the subject and surroundings (e.g. a portrait subject wearing a white shirt is standing in front of a white wall)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- Subjects with repeating patterns (window blinds, buildings with multiple rows of similarly shaped windows, etc.)
- Subject is moving rapidly

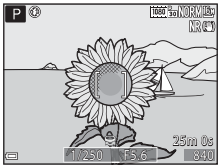
In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject positioned at the same distance from the camera as the actual desired subject, and use focus lock (79).

The camera can also focus using manual focus (62, 63).

Focus Lock

Use focus lock to capture creative compositions even when the focus area is set to the center of the frame.

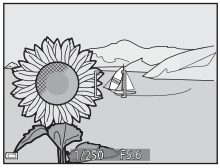
1 Position the subject in the center of the frame and press the shutter-release button halfway.



- Confirm that the focus area glows green.
- Focus and exposure are locked.

2 Without lifting your finger, recompose the picture.

- Make sure to maintain the same distance between the camera and the subject.



3 Press the shutter-release button the rest of the way down to take the picture.

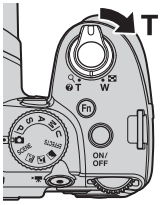
Moving the Focus Area to the Desired Position

In **P**, **S**, **A** or **M** shooting mode, the focus area can be moved using the multi selector by setting **AF area mode** in the shooting menu (📖69) to one of the manual options.

Playback Features

Playback Zoom

Moving the zoom control toward **T** (Q) in full-frame playback mode (📖32) zooms in on the image.



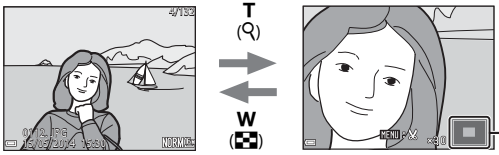


Image is displayed full-frame.

Image is zoomed in.

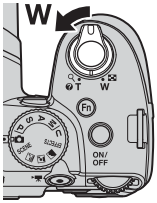
- You can change the zoom ratio by moving the zoom control toward **W** (▪) or **T** (Q). The zoom can also be adjusted by rotating the command dial.
- To view a different area of the image, press the multi selector ▲▼◀▶.
- If you are viewing an image that was captured using face detection or pet detection, the camera zooms in on the face detected at the time of shooting (except images captured using **Continuous** or **Exposure bracketing**). To zoom in on an area of the image where there are no faces, adjust the zoom ratio and then press ▲▼◀▶.
- When a zoomed image is displayed, press the OK button to return to full-frame playback mode.

Cropping Images

When a zoomed image is displayed, you can press the MENU button to crop the image to include only the visible portion and save it as a separate file (📖12).

Thumbnail Display, Calendar Display

Moving the zoom control toward **W** (▪) in full-frame playback mode (📖32) displays images as thumbnails.



Full-frame Display | Thumbnail Display | Calendar Display

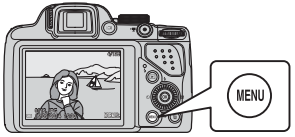
- You can change the number of thumbnails displayed by moving the zoom control toward **W** (▪) or **T** (🔍).
- While using thumbnail playback mode, use the multi selector ▲▼◀▶ or rotate it to select an image, and then press the ⓞ button to display that image full-frame.
- While using calendar display mode, use the multi selector ▲▼◀▶ or rotate it to select a date, and then press the ⓞ button to display the images captured on that day.

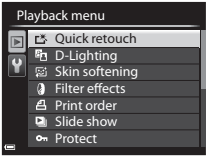
Calendar Display

Images captured when the camera's date is not set are treated as images captured on January 1, 2014.

Functions That Can Be Set with the MENU Button (Playback Menu)

When viewing images in full-frame playback mode or thumbnail playback mode, you can configure the playback menu settings listed below by pressing the **MENU** button (📖8).





Option	Description	📖
Quick retouch[1]	Allows you to create retouched copies in which contrast and saturation have been enhanced.	8
D-Lighting[1]	Allows you to create copies with enhanced brightness and contrast, brightening dark portions of an image.	8
Skin softening[1]	Detects faces in images and creates a copy with softer facial skin tones.	9
Filter effects[1]	Allows you to apply a variety of effects using digital filters. The available effects are **Soft portrait**, **Selective color**, **Cross screen**, **Fisheye**, **Miniature effect**, **Painting**, **Vignette**, **Photo illustration** and **Portrait (color + B&W)**.	10
Print order[2]	Allows you to select which images are printed, and how many copies of each image are printed, prior to printing.	48
Slide show	Allows you to view images in an automatic slide show.	50
Protect[2]	Protects selected images and movies from accidental deletion.	51
Rotate image[2]	Allows you to rotate the displayed image to portrait or landscape orientation.	51
Small picture[1]	Creates a small copy of images.	11
Voice memo	Allows you to use the camera's microphone to record voice memos and attach them to images.	52

Option	Description	🕮
Copy[2]	Allows you to copy images between the internal memory and a memory card. This function can also be used to copy movies.	53
Sequence display options	Allows you to select whether to display only the key picture for a sequence of images captured continuously or to display the sequence as individual images. • When only the key picture is displayed for a sequence, press the OK button to display each image in the sequence. Press the multi selector ▲ to return to the key picture display.	54
Choose key picture[2]	Allows you to change the key picture for images captured in sequence.	54

[1] Edited images are saved as separate files. Some images may not be edited.
[2] Select an image on the image selection screen. See "Using the Screen for Selecting Images" (84) for more information.

Using the Screen for Selecting Images

When an image selection screen such as the one shown on the right is displayed while operating the camera, follow the procedures described below to select the images.

1 Use the multi selector ◀▶ or rotate it to select the desired image.

- Move the zoom control (📖1) toward **T** (🔍) to switch to full-frame playback, or **W** (▦) to switch to thumbnail playback.
- Only one image can be selected for **Rotate image**, **Choose key picture**, and **Welcome screen**. Proceed to step 3.

2 Use ▲▼ to select **ON** or **OFF** (or the number of copies).

- When **ON** is selected, a check mark (✓) is displayed with the image. Repeat steps 1 and 2 to select additional images.

3 Press the OK button to apply the image selection.

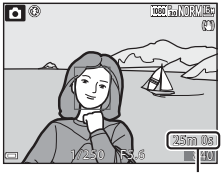
- When a confirmation dialog is displayed, follow the on-screen instructions.

Recording and Playing Back Movies

Recording Movies

1 Display the shooting screen.

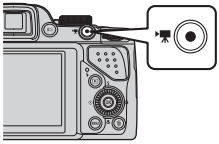
- Check the remaining amount of movie recording time.



Movie recording time remaining

2 Press the ● (movie-record) button to start movie recording.

- The camera focuses on the subject in the center of the frame.
- Press the multi selector OK to pause recording, and press OK again to resume recording (except when **iFrame 720/30p** or **iFrame 720/25p**, or an HS movie option is selected in **Movie options**). Recording automatically ends if it remains paused for about five minutes.



3 Press the ● (movie-record) button again to end recording.

Maximum Movie Length

Individual movie files cannot exceed 4 GB in size or 29 minutes in length, even when there is sufficient free space on the memory card for longer recording.

- The maximum movie length for a single movie is displayed on the shooting screen.
- Recording may end before either limit is reached if camera temperature becomes elevated.
- The actual movie length may vary depending on the movie content, subject movement, or type of memory card.

Notes About Saving Images and Recording Movies

The indicator showing the number of exposures remaining or the indicator showing the maximum movie length flashes while images are being saved or while a movie is being recorded. ***Do not open the battery-chamber/memory card slot cover or remove the battery or memory card*** while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card.

Notes About Movie Recording

- Memory cards with an SD Speed Class rating of 6 or faster are recommended when recording movies (📖21). Movie recording may stop unexpectedly when a memory card with a lower Speed Class rating is used.
- When using the camera's internal memory, saving movies may take some time.
- Depending on the file size of a movie, it may not be possible to save the movie in the internal memory or copy it from a memory card to the internal memory.
- The sounds of zoom control operation, zoom, autofocus lens drive movement, vibration reduction, and aperture operation when brightness changes may be recorded.
- The following phenomena may be seen in the monitor while recording movies. These phenomena are saved in the recorded movies.
  - Banding may occur in images under fluorescent, mercury-vapor, or sodium-vapor lighting.
  - Subjects that move quickly from one side of the frame to the other, such as a moving train or car, may appear skewed.
  - The entire movie image may be skewed when the camera is panned.
  - Lighting or other bright areas may leave residual images when the camera is moved.
- Depending on the distance to the subject or the amount of zoom applied, subjects with repeating patterns (fabrics, lattice windows, etc.) may have colored stripes (interference patterns, moire, etc.) in them during movie recording and playback. This occurs when the pattern in the subject and the layout of the image sensor interfere with each other; it is not a malfunction.

Notes About Using Zoom During Movie Recording

- The zoom indicator is not displayed during movie recording.
- There may be some degradation in image quality when digital zoom is used. If you zoom in on the subject while recording a movie, the zoom motion temporarily stops at the position where optical zoom is changed to digital zoom.

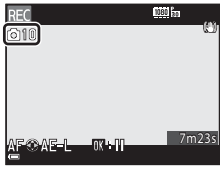
Camera Temperature

- The camera may become warm when recording movies for an extended period of time or when the camera is used in a hot area.
- If the inside of the camera becomes extremely hot when recording movies, the camera will automatically stop recording. The amount of time remaining until the camera stops recording (10s) is displayed. After the camera stops recording, it turns itself off.
  Leave the camera off until the inside of the camera has cooled.

Focusing and Exposure Locking During Movie Recording

- The focus can be adjusted during movie recording in the following manner in accordance with the **Autofocus mode** (89) setting of the movie menu.
  - AF-S **Single AF** (default setting): The focus is locked when movie recording starts. To perform the autofocus function during movie recording, press the multi selector ◀.
  - AF-F **Full-time AF**: The focus is adjusted repeatedly even during movie recording.
- When the multi selector ▶ is pressed during movie recording, the exposure is locked. To unlock, press ▶ again.
- When the focus mode (61) is MF (manual focus), adjust the focus manually. The focus can be adjusted while recording movies by rotating the multi selector counterclockwise to focus on far subjects or clockwise to focus on near subjects.
- Autofocus may not perform as expected (78). Should this occur, try MF (manual focus) (62, 63) or set **Autofocus mode** in the movie menu to AF-S **Single AF** (default setting) and then use focus lock (79) to record.

Saving Still Images While Recording Movies



If the shutter-release button is pressed all the way while recording a movie, one frame is saved as a still image (JPEG image). Movie recording continues while the still image is being saved.

- The maximum number of still images that can be saved during a movie recording (10 images) and 📷 are displayed at the top left of the monitor. When 🚫 is displayed, a still image cannot be saved.
- The image size of the still images to be saved is set to 1920 × 1080 pixels).

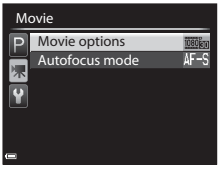
Notes About Saving Still Images During Movie Recording

- Still images cannot be saved during movie recording in the following situations.
  - When movie recording is paused
  - When a movie is recorded to the internal memory
  - When the remaining movie length is less than 10 seconds
  - When **Movie options** (📖89) is set to **1080/60i**, **1080/50i**, **480/30p**, **480/25p** or HS movie
- Frames of a movie that were recorded when a still image was being taken may not be played back in a seamless manner.
- The sounds of operating the shutter-release button when saving a still image may be heard in the recorded movie.
- If the camera moves when the shutter-release button is pressed, the image may be blurred.

Functions That Can Be Set with the MENU Button (Movie Menu)

Enter shooting mode ➔ Press the MENU button ➔ (movie) tab (📖9)

The settings of the menu options listed below can be configured.



Option	Description	📖
Movie options	Select the movie type. Select normal speed to record movies at normal speed, or HS (high speed) to record movies that play in slow or fast motion. • Default setting: **1080/30p** or **1080/25p**	55
Autofocus mode	Select either **Single AF**, which locks focus when movie recording begins, or **Full-time AF**, which continues focusing during movie recording. • Default setting: **Single AF**	58

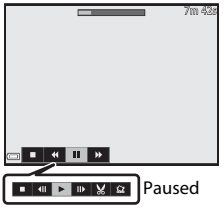
Playing Back Movies

Press the ▶ button to enter playback mode. Movies are indicated by the movie options icon (55).
Press the OK button to play back movies.

- To adjust the volume, move the zoom control (📖1).

Volume indicator

Functions Available During Playback



Rotate the multi selector or the command dial to advance or rewind.
Playback controls are displayed at the bottom of the monitor.
The operations listed below can be performed by using the multi selector ◀▶ to select a control and then pressing the OK button.

Function	Icon	Description	
Rewind	◀◀	Hold down the OK button to rewind the movie.	
Advance	▶▶	Hold down the OK button to advance the movie.	
Pause	❚❚	Pause playback. The operations listed below can be performed while paused.	
	◀❚	Rewind the movie one frame. Hold down the OK button for continuous rewinding.*	
	❚▶	Advance the movie one frame. Hold down the OK button for continuous advancing.*	
	▶	Resume playback.	
	✂	Extract the desired portion of a movie and save it as a separate file.	
	🖼	Extract a single frame of a movie and save it as a still image.	
End	■	Return to full-frame playback mode.	

* The movie can also be advanced or rewound by one frame by rotating the multi selector or command dial.

Deleting Movies

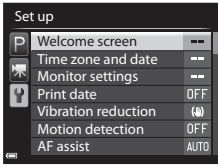
To delete a movie, select the desired movie in full-frame playback mode (📖32) or thumbnail playback mode (📖81) and press the 🗑 button (📖33).

General Camera Setup

Functions That Can Be Set with the MENU Button (Setup Menu)

Press the MENU button ➔ (setup) tab (📖9)

The settings of the menu options listed below can be configured.



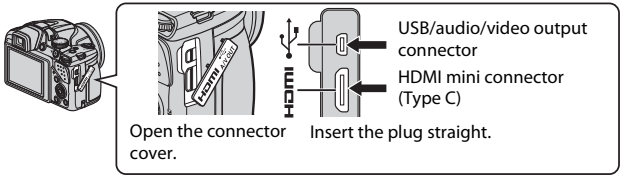
Option	Description	📖
Welcome screen	Allows you to select whether or not the welcome screen is displayed when the camera is turned on.	59
Time zone and date	Allows you to set the camera clock.	60
Monitor settings	Allows you to adjust post-shooting image review, monitor brightness, and photo information display settings.	62
Print date	Allows you to imprint the shooting date and time on images.	64
Vibration reduction	Allows you to select the vibration reduction setting used when shooting.	65
Motion detection	Allows you to set whether or not the camera automatically increases the shutter speed to reduce blurring caused by camera shake if motion is detected when shooting still images.	66
AF assist	Allows you to enable or disable the AF-assist illuminator.	66
Digital zoom	Allows you to set the operation of digital zoom.	67
Sound settings	Allows you to adjust sound settings.	67
Auto off	Allows you to set the amount of time that passes before the monitor turns off to save power.	68

Option	Description	🕮
Format memory/ Format card	Allows you to format the internal memory or the memory card.	69
Language	Allows you to change the camera's display language.	69
TV settings	Allows you to adjust TV-connection settings.	70
Charge by computer	Allows you to set whether or not the battery in the camera is charged when the camera is connected to a computer.	71
Toggle Av/Tv selection	Allows you to switch the method for setting the flexible program, shutter speed or aperture value.	72
Reset file numbering	Allows you to reset the sequential numbering of file numbers when **Yes** is selected.	72
Blink warning	Allows you to set whether or not closed eyes are detected when taking images of people using face detection.	73
Eye-Fi upload	Allows you to set whether or not to enable the function for sending images to a computer using a commercially available Eye-Fi card.	74
Peaking	Allows you to set whether or not to highlight areas that are in focus in white on the image displayed in the monitor when operating manual focus.	75
Reset all	Allows you to reset the camera's settings to their default values.	75
Firmware version	View the current camera firmware version.	75

Connecting the Camera to a TV, Computer, or Printer

Connection Methods

You can enhance your enjoyment of images and movies by connecting the camera to a TV, computer, or printer.



- Before connecting the camera to an external device, make sure the remaining battery level is sufficient and turn the camera off. Before disconnecting, make sure to turn the camera off.
- If the AC Adapter EH-62A (available separately) is used, this camera can be powered from an electrical outlet. Do not use any other make or model of AC adapter as it may cause the camera to heat up or malfunction.
- For information about the connection methods and subsequent operations, refer to the documentation included with the device in addition to this document.

Viewing images on a TV

13

Images and movies captured with the camera can be viewed on a TV.
Connection method: Connect the video and audio plugs of the optional Audio Video Cable EG-CP16 (81) to the TV's input jacks. Alternatively, connect a commercially available HDMI cable to the TV's HDMI input jack.

Viewing and organizing images on a computer

95

You can transfer images to a computer to perform simple retouching and manage image data.
Connection method: Connect the camera to the computer's USB port with the included USB cable.

- Before connecting to a computer, install ViewNX 2 on the computer (95).
- If any USB devices that draw power from the computer are connected, disconnect them from the computer before you connect the camera to it. Connecting the camera and other USB-powered devices to the same computer simultaneously may cause a camera malfunction or excessive power supply from the computer, which could damage the camera or memory card.

Printing images without using a computer

15

If you connect the camera to a PictBridge-compatible printer, you can print images without using a computer.
Connection method: Connect the camera directly to the printer's USB port with the included USB cable.

Using ViewNX 2

Install ViewNX 2 to upload, view, edit, and share photos and movies.

Installing ViewNX 2

An Internet connection is required. For system requirements and other information, see the Nikon website for your region.

1 Download the ViewNX 2 installer.

Start the computer and download the installer from:
http://nikonimglib.com/nvnx/

2 Double-click the downloaded file.

3 Follow the on-screen instructions.

4 Exit the installer.

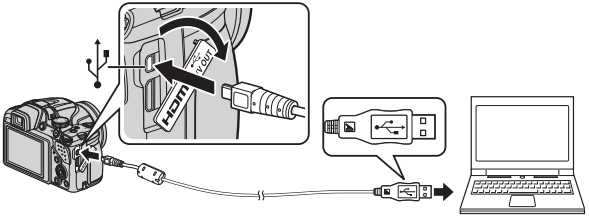
Click **Yes** (Windows) or **OK** (Mac).

Transferring Images to the Computer

1 Choose how images will be copied to the computer.

Choose one of the following methods:

- **Direct USB connection**: Turn the camera off and ensure that the memory card is inserted in the camera. Connect the camera to the computer using the USB cable. The camera automatically turns on.
  To transfer images that are saved in the camera's internal memory, remove the memory card from the camera before connecting it to the computer.



- **SD card slot**: If your computer is equipped with an SD card slot, the card can be inserted directly in the slot.
- **SD card reader**: Connect a card reader (available separately from third-party suppliers) to the computer and insert the memory card.

If a message is displayed prompting you to choose a program, select Nikon Transfer 2.

- **When using Windows 7**
  If the dialog shown at right is displayed, follow the steps below to select Nikon Transfer 2.

  1 Under **Import pictures and videos**, click **Change program**. A program selection dialog will be displayed; select **Import File using Nikon Transfer 2** and click **OK**.
  2 Double-click **Import File**.

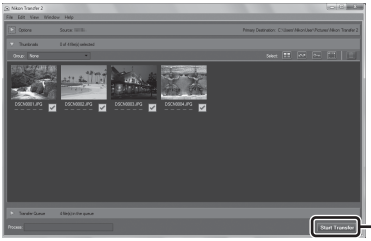
If the memory card contains a large number of images, it may take a while for Nikon Transfer 2 to start. Wait until Nikon Transfer 2 starts.

Connecting the USB Cable

The connection may not be recognized if the camera is connected to the computer via a USB hub.

2 Transfer images to the computer.

- Click **Start Transfer**.



- At default settings, all the images on the memory card will be copied to the computer.

3 Terminate the connection.

- If the camera is connected to the computer, turn the camera off and disconnect the USB cable.
- If you are using a card reader or card slot, choose the appropriate option in the computer operating system to eject the removable disk corresponding to the memory card and then remove the card from the card reader or card slot.

Viewing Images

Start ViewNX 2.

- Images are displayed in ViewNX 2 when transfer is complete.
- Consult online help for more information on using ViewNX 2.

Starting ViewNX 2 Manually

- **Windows**: Double-click the **ViewNX 2** shortcut on the desktop.
- **Mac**: Click the **ViewNX 2** icon in the Dock.

Reference Section

The Reference Section provides detailed information and hints about using the camera.

Shooting

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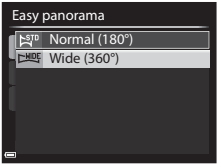
Using Easy Panorama (Shooting and Playback)

Shooting with Easy Panorama

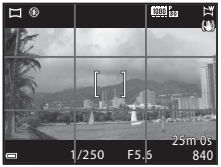
Rotate the mode dial to SCENE ➔ MENU button ➔ Easy panorama

1 Select **Normal (180°)** or **Wide (360°)** as the shooting range and press the OK button.



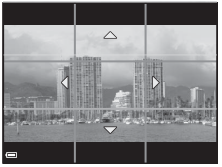
- When the camera is readied in the horizontal position, the image size (width × height) is as follows.
  - **Normal (180°)**: 4800 × 920 when moved horizontally, 1536 × 4800 when moved vertically
  - **Wide (360°)**: 9600 × 920 when moved horizontally, 1536 × 9600 when moved vertically

2 Frame the first edge of the panorama scene, and then press the shutter-release button halfway to focus.



- The zoom position is fixed at wide-angle.
- The camera focuses on the area in the center of the frame.

3 Press the shutter-release button all the way, and then remove your finger from the shutter-release button.



- △▽◁▷ are displayed to indicate the direction of camera movement.

4 Move the camera in one of the four directions until the guide indicator reaches the end.

- When the camera detects which direction it is moving in, shooting begins.

Guide

Example of Camera Movement

- Using your body as the axis of rotation, move the camera slowly in an arc, in the direction of the marking (△▽◁▷).
- Shooting stops if the guide does not reach the edge within about 15 seconds (when **Normal (180°)** is selected) or within about 30 seconds (when **Wide (360°)** is selected) after shooting starts.

Notes About Easy Panorama Shooting

- The range of the image seen in the saved image is narrower than that seen in the monitor at the time of shooting.
- If the camera is moved too quickly or shaken too much, or if the subject is too uniform (e.g. walls or darkness), an error may occur.
- If shooting is stopped before the camera reaches the half-way point in the panorama range, a panorama image is not saved.
- If more than half of the panorama range is captured but shooting ends before reaching the edge of the range, the range not captured is recorded and displayed in gray.

Viewing Images Captured with Easy Panorama

Switch to playback mode (32), display an image captured using easy panorama in full-frame playback mode, and then press the OK button to scroll the image in the direction that was used when shooting.

- Rotate the multi selector to scroll forward or backward quickly.

Playback controls are displayed at the bottom of the monitor during playback.

Use the multi selector ◀▶ to select a control, and then press the OK button to perform the following operations.

Function	Icon	Description	
Rewind	◀◀	Hold down the OK button to scroll backward quickly.*	
Advance	▶▶	Hold down the OK button to scroll forward quickly.*	
Pause	❚❚	Pause playback. The operations listed below can be performed while paused.	
	◀II	Hold down the OK button to rewind.*	
	II▶	Hold down the OK button to scroll.*	
	▶	Resume automatic scrolling.	
End	■	Switch to full-frame playback mode.	

* These operations can also be performed by rotating the multi selector.

Notes About Scroll Playback

This camera may not be able to scroll the playback of, or zoom in on, easy panorama images captured with another make or model of digital camera.

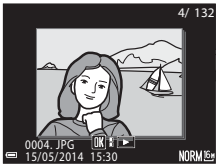
Viewing and Deleting Images Captured Continuously (Sequence)

Viewing Images in a Sequence

Images captured continuously are saved as a sequence.

The first image of a sequence is used as the key picture to represent the sequence when displayed in full-frame playback mode or thumbnail playback mode (default setting).

To display each image in the sequence individually, press the ⓞ button.



After pressing the ⓞ button, the operations listed below are available.

- To display the previous or next image, rotate the multi selector or press ◀▶.
- To display images that are not included in the sequence, press ▲ to return to the key picture display.
- To display images in a sequence as thumbnails, or to play them back in a slide show, set **Sequence display options** to **Individual pictures** in the playback menu (🔗54).

Sequence Display Options

Images captured continuously with cameras other than this camera cannot be displayed as a sequence.

Playback Menu Options Available When Using Sequence

- When images in a sequence are displayed in full-frame playback mode, press the MENU button to select functions in playback menu (📖82).
- If you press the MENU button when a key picture is displayed, the following settings can be applied to all images in the sequence:
  - Print order, Protect, Copy

Deleting Images in a Sequence

When the 🗑 button is pressed for images in a sequence, the images that are deleted vary depending on how the sequences are displayed.

- When the key picture is displayed:
  - **Current image**: All images in the displayed sequence are deleted.
  - **Erase selected images**: When a key picture is selected on the erase selected images screen (📖34), all images in that sequence are deleted.
  - **All images**: All images in the internal memory or on the memory card are deleted.
- When images in a sequence are displayed in full-frame playback mode:
  - **Current image**: The image currently displayed is deleted.
  - **Erase selected images**: Images that are selected in the sequence are deleted.
  - **Entire sequence**: All images in the displayed sequence are deleted.

Editing Still Images

Before Editing Images

You can easily edit images on this camera. Edited copies are saved as separate files.

Edited copies are saved with the same shooting date and time as the original.

Restrictions on Image Editing

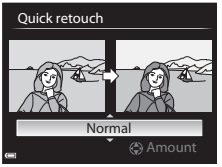
An image can be edited up to ten times.

Quick Retouch: Enhancing Contrast and Saturation

Select an image (📖32) ➔ **MENU** button (📖8) ➔ Quick retouch

Use the multi selector ▲▼ to select the desired effect level and press the Ⓚ button.

- The edited version is displayed on the right.
- To exit without saving the copy, press ◀.

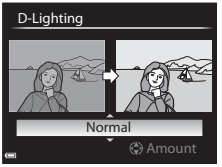


D-Lighting: Enhancing Brightness and Contrast

Select an image (📖32) ➔ **MENU** button (📖8) ➔ D-Lighting

Use the multi selector ▲▼ to select the desired effect level and press the Ⓚ button.

- The edited version is displayed on the right.
- To exit without saving the copy, press ◀.

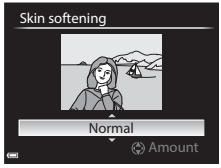


Skin Softening: Softening Skin Tones

Select an image (📖32) ➔ MENU button (📖8) ➔ Skin softening

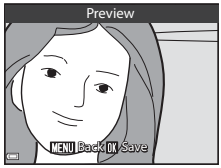
1 Use the multi selector ▲▼ to select the desired effect level and press the OK button.

- To exit without saving the copy, press ◀.



2 Preview the result and press the OK button.

- The edited face is zoomed in.
- When more than one face has been edited, press ◀▶ to switch the face that is displayed.
- To change the effect level, press the MENU button and return to step 1.
- An edited copy is created.



Notes About Skin Softening

- Up to 12 faces, in order of proximity to the center of the frame, can be enhanced.
- Depending upon the direction in which faces are looking, or the brightness of faces, the camera may be unable to accurately detect faces, or the skin softening function may not perform as expected.
- If no faces are detected, a warning is displayed and the screen returns to the playback menu.

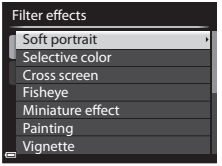
Filter Effects: Applying Digital Filter Effects

Select an image (📖32) ➔ **MENU** button (📖8) ➔ Filter effects

Option	Description
Soft portrait	Blurs the background of human subjects. When no human subjects are detected, keeps the area in the center of the frame in focus and blurs the surrounding area.
Selective color	Keeps only a selected image color and makes other colors black-and-white.
Cross screen	Produces star-like rays of light that radiate outward from bright objects such as sunlight reflections and city lights. Suitable for night scenes.
Fisheye	Creates images that look like they were shot with a fisheye lens. Suitable for images shot in macro mode.
Miniature effect	Creates images that look like close-up photos of a diorama. Suitable for images shot while looking down from a high location, with the main subject near the center of the frame.
Painting	Creates images with the ambience of paintings.
Vignette	Lowers the peripheral light intensity from the center to the edges of an image.
Photo illustration	Emphasizes outlines and reduces the number of colors to create images with the ambience of illustrations.
Portrait (color + B&W)	Makes colors of the background of human subjects black-and-white. When no human subjects are detected, keeps colors of the area in the center of the frame and makes the surrounding area black-and-white.

1 Use the multi selector ▲▼ to select the desired filter effect and press the OK button.

- When effects other than **Selective color** are selected, proceed to step 3.



2 Use ▲▼ to select the color to keep and press the OK button.

3 Preview the result and press the OK button.

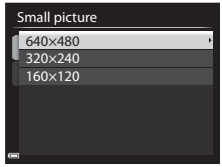
- An edited copy is created.
- To exit without saving the copy, press ◀.

Small Picture: Reducing the Size of an Image

Select an image (📖32) ➔ MENU button (📖8) ➔ Small picture

1 Use the multi selector ▲▼ to select the desired copy size and press the OK button.

- When the aspect ratio of the image is 16:9, only **640×360** can be selected.
- When the aspect ratio of the image is 3:2 or 1:1, the image cannot be edited.



2 Select **Yes** and press the OK button.

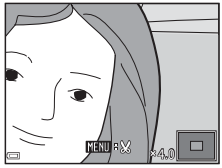
- An edited copy is created (compression ratio of approximately 1:16).

Crop: Creating a Cropped Copy

1 Move the zoom control to enlarge the image (80).

2 Refine copy composition and press the MENU button.

- Move the zoom control toward **T** (Q) or **W** (▦) to adjust the zoom ratio. Set a zoom ratio at which MENU is displayed.
- Use the multi selector ▲▼◀▶ to scroll the image so that only the portion to be copied is visible in the monitor.



3 Select **Yes** and press the OK button.

- An edited copy is created.

Image Size

When the image size of the cropped copy is 320 × 240 or smaller, the image is displayed at a smaller size during playback.

Cropping the Image in Its Current "Tall" Orientation

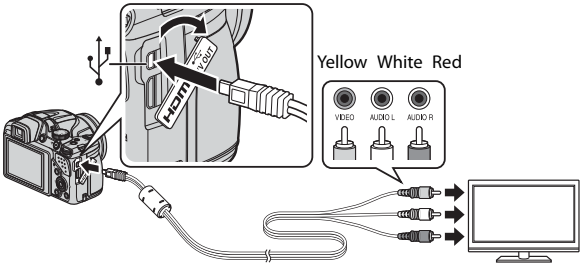
Use the **Rotate image** option (51) to rotate the image so that it is displayed in landscape orientation. After cropping the image, rotate the cropped image back to "tall" orientation.

Connecting the Camera to a TV (Viewing Images on a TV)

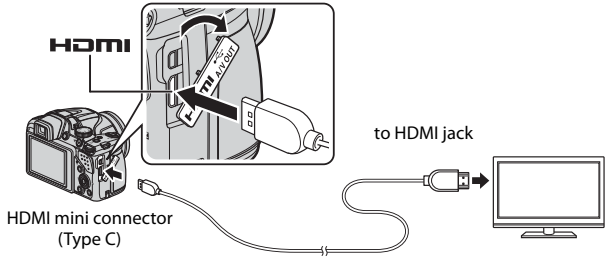
1 Turn off the camera and connect it to the TV.

- Make sure that the plugs are properly oriented. Do not insert or remove the plugs at an angle when connecting or disconnecting them.

When using the optional audio video cable (81)



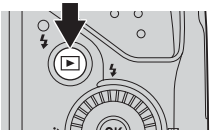
When using a commercially available HDMI cable



2 Set the TV's input to external video input.

- See the documentation provided with your TV for details.

3 Press and hold down the ▶ button to turn on the camera.



- Images are displayed on the TV.
- The camera monitor does not turn on.

If Images Are Not Displayed on the TV

Make sure that **TV settings** (70) in the setup menu conforms to the standard used by your TV.

Using a TV Remote Control (HDMI Device Control)

The remote control of an HDMI-CEC-compatible TV can be used to select images, start and pause movie playback, switch between full-screen playback mode and four-image thumbnail display, etc.

- Set **HDMI device control** (70) of **TV settings** to **On** (default setting) in the setup menu, and then connect the camera and TV using an HDMI cable.
- Aim the remote control at the TV when operating it.

Connecting the Camera to a Printer (Direct Print)

Users of PictBridge-compatible printers can connect the camera directly to the printer and print images without using a computer.

Connecting the Camera to a Printer

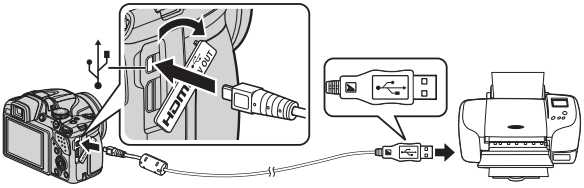
1 Turn off the camera.

2 Turn on the printer.

- Check printer settings.

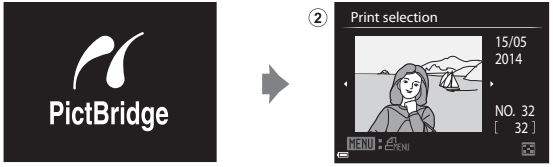
3 Connect the camera to the printer using the included USB cable.

- Make sure that the plugs are properly oriented. Do not insert or remove the plugs at an angle when connecting or disconnecting them.



4 The camera is automatically turned on.

- The **PictBridge** startup screen (①) is displayed in the camera monitor, followed by the **Print selection** screen (②).



If the PictBridge Startup Screen Is not Displayed

When **Auto** is selected for **Charge by computer** (71), it may be impossible to print images with direct connection of the camera to some printers.

If the PictBridge startup screen is not displayed after the camera is turned on, turn the camera off and disconnect the USB cable. Set **Charge by computer** to **Off** and reconnect the camera to the printer.

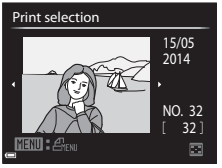
More Information

See "Printing Images of Size 1:1" (23) for more information.

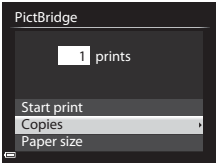
Printing Individual Images

1 Use the multi selector ▲▼◀▶ to select the desired image and press the OK button.

- Move the zoom control toward **W** (▪) to switch to thumbnail playback or **T** (🔍) to switch to full-frame playback.

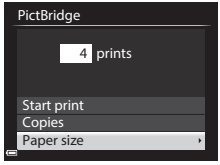


2 Use ▲▼ to select **Copies** and press the OK button.



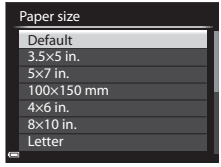
3 Select the desired number of copies (up to 9) and press the OK button.

4 Select **Paper size** and press the OK button.



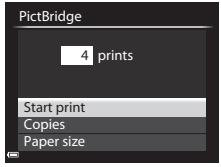
5 Select the desired paper size and press the OK button.

- To apply the paper size setting configured on the printer, select **Default** as the paper size option.
- The paper size options available on the camera vary depending on the printer that you use.



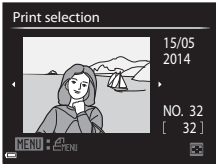
6 Select **Start print** and press the OK button.

- Printing starts.
- To cancel printing, press the OK button.



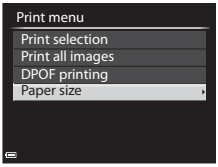
Printing Multiple Images

1 When the **Print selection** screen is displayed, press the MENU button.



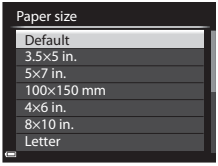
2 Use the multi selector ▲▼ to select **Paper size** and press the OK button.

- To exit the print menu, press the MENU button.

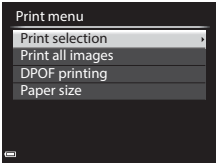


3 Select the desired paper size and press the OK button.

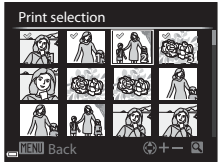
- To apply the paper size setting configured on the printer, select **Default** as the paper size option.
- The paper size options available on the camera vary depending on the printer that you use.



4 Select **Print selection**, **Print all images**, or **DPOF printing** and press the OK button.

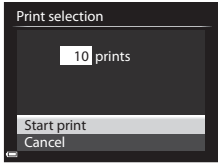


Print selection



Select images (up to 99) and the number of copies (up to 9) of each.

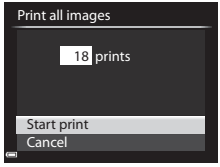
- Use the multi selector ◀▶ to select images, and use ▲▼ to specify the number of copies to be printed.
- Images selected for printing are indicated by the check mark icon and the numeral indicating the number of copies to be printed. If no copies have been specified for images, the selection is canceled.
- Move the zoom control toward **T** (🔍) to switch to full-frame playback or **W** (▦) to switch to thumbnail playback.
- Press the OK button when setting is complete.
- When the screen shown on the right is displayed, select **Start print** and press the OK button to start printing.



Print all images

One copy each of all images saved in the internal memory, or on the memory card, is printed.

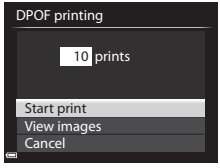
- When the screen shown on the right is displayed, select **Start print** and press the OK button to start printing.



DPOF printing

Print images for which a print order was created using the **Print order** option (48).

- When the screen shown on the right is displayed, select **Start print** and press the OK button to start printing.
  To view the current print order, select **View images** and press the OK button. To print images, press the OK button again.



Editing Movies

When editing movies, use a sufficiently charged battery to prevent the camera from turning off during editing. When the battery level indicator is (▭), movie editing is not possible.

Restrictions on Movie Editing

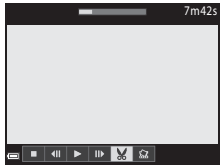
Movies recorded with **1080/60i** or **1080/50i**, or **iFrame 720/30p** or **iFrame 720/25p** cannot be edited.

Extracting Only the Desired Portion of a Movie

The desired portion of a recorded movie can be saved as a separate file.

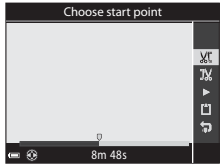
1 Play back the desired movie and pause at the start point of the portion that is to be extracted (🕮90).

2 Use the multi selector ◀▶ to select the ✂ control, and then press the ⓚ button.



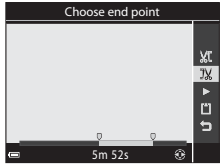
3 Use ▲▼ to select the ✂ control (Choose start point).

- Use ◀▶ or rotate the command dial to move the start point.
- To cancel editing, select ↩ (Back), and press the ⓚ button.



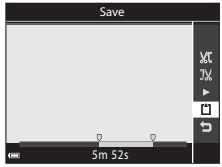
4 Use ▲▼ to select ✂ (Choose end point).

- Use ◀▶ or rotate the command dial to move the end point.
- To preview the specified portion, use ▲▼ to select ▶ and then press the ⓚ button. Press the ⓚ button again to stop previewing.



5 Use ▲▼ to select [⬆] (Save) and press the ⓚ button.

- Follow the instructions on the screen to save the movie.



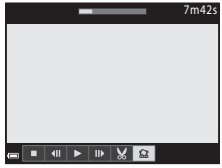
Notes About Movie Extracting

- A movie that was created by editing cannot be edited again.
- The actual trimmed portion of a movie may differ slightly from the portion selected using the start and end points.
- Movies cannot be trimmed so that they are less than two seconds long.

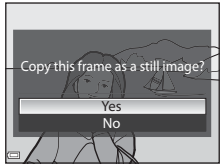
Saving a Frame from a Movie as a Still Image

The desired frame of a recorded movie can be extracted and saved as a still image.

- Pause a movie and display the frame to be extracted (📖90).
- Use the multi selector ◀▶ to select the [📷] control and press the ⓚ button.



- Select **Yes** when a confirmation dialog is displayed, and press the ⓚ button to save the image.
- The still image is saved with **Normal** as the image quality. The image size is determined by the type (image size) (👓55) of the original movie.
  For example, a still image saved from a movie recorded with **1080/30p** (or **1080/25p**) is (1920 × 1080 pixels).



The Shooting Menu (P, S, A or M Mode)

Image Quality

Enter shooting mode ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (🕮9) ➔ Image quality

Set the image quality (compression ratio) used when saving images.

Lower compression ratios result in higher quality images, but the number of images that can be saved is reduced.

Option		Description
FINE	Fine	Finer image quality than **Normal**. Compression ratio of about 1:4
NORM	Normal (default setting)	Normal image quality, suitable for most applications. Compression ratio of about 1:8

Image Quality Setting

- The image quality can be set in any shooting mode. The setting is also applied to other shooting modes (except shooting mode **U** and **Easy panorama** scene mode).
- The setting may not be changed when using certain settings of other functions.

Number of Images That Can Be Saved

- The approximate number of images that can be saved can be checked in the monitor when shooting (🕮22).
- Note that due to JPEG compression, the number of images that can be saved may vary greatly depending on the image content, even when using memory cards with the same capacity and the same image quality and image size settings. In addition, the number of images that can be saved may vary depending on the make of the memory card.
- If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999."

Image Size

Enter shooting mode ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Image size

Set the image size (number of pixels) used when saving JPEG images.
The larger the image size, the larger the size at which it can be printed, but the number of images that can be saved is reduced.

Option	Aspect ratio (horizontal to vertical)
16M 4608×3456 (default setting)	4:3
8M 3264×2448	4:3
4M 2272×1704	4:3
2M 1600×1200	4:3
VGA 640×480	4:3
16:9 12M 4608×2592	16:9
16:9 2M 1920×1080	16:9
3:2 4608×3072	3:2
1:1 3456×3456	1:1

Image Size Setting

- The image size can be set in any shooting mode. The setting is also applied to other shooting modes (except shooting mode **U** and **Easy panorama** scene mode).
- The setting may not be changed when using certain settings of other functions.

Printing Images of Size 1:1

Change the printer setting to "Border" when printing images with the size set to 1:1. The images may not be printed in 1:1 ratio depending on the printer.

Picture Control (COOLPIX Picture Control) (Changing the Settings for Image Recording)

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Picture Control

Change the settings for image recording according to the shooting scene or your preferences. Sharpness, contrast and saturation can be adjusted in detail.

Option	Description
Standard (default setting)	Standard processing for balanced results. Recommended for most situations.
Neutral	Minimal processing for natural results. Select for images that will later be processed or retouched.
Vivid	Images are enhanced for a vivid, photoprint effect. Select for images that emphasize primary colors, such as blue, red, and green.
Monochrome	Shoots monochrome photographs such as in black-and-white or sepia.
Custom 1*	Changes to the setting of **Custom 1** in COOLPIX Custom Picture Control.
Custom 2*	Changes to the setting of **Custom 2** in COOLPIX Custom Picture Control.

* Only displayed when the setting customized in **Custom Picture Control** (👓28) has been registered.

COOLPIX Picture Control

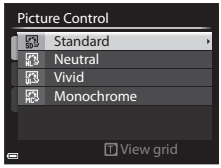
- The COOLPIX Picture Control function of this camera cannot be used with other makes of cameras, Capture NX, Capture NX 2 and ViewNX 2 Picture Control function.
- The setting may not be changed when using certain settings of other functions.

Customizing Existing COOLPIX Picture Controls: Quick Adjust and Manual Adjust

COOLPIX Picture Control can be customized using Quick adjust, which allows for balanced adjustment of sharpness, contrast, saturation and other image editing components, or manual adjust, which allows for detailed adjustment of the components individually.

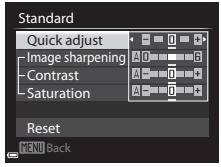
1 Use the multi selector ▲▼ to select the desired type of COOLPIX Picture Control and press the ⓚ button.

- Items can also be selected by rotating the multi selector.



2 Use ▲▼ to highlight the desired option (26) and use ◀▶ to select a value.

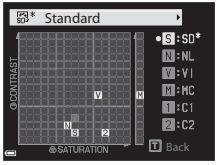
- Press the ⓚ button to set the value.
- When COOLPIX Picture Controls are modified from the default settings, an asterisk (*) is displayed after the options in the Picture Control setting menu.
- To change the adjusted values to the default setting, select **Reset** and press the ⓚ button.



View Grid of COOLPIX Picture Control

When the zoom control is moved toward **T** (Q) on the screen shown in step 1, the current and default settings are displayed on a square grid so that you can see their relations with the other COOLPIX Picture Controls.

The vertical axis indicates the level of contrast, and the horizontal axis indicates the level of saturation. To return to the setting screen, move the zoom control toward **T** (Q) again.



- Rotate the multi selector to change to other COOLPIX Picture Controls.
- Press the ⓚ button to display the COOLPIX Picture Control setting screen (step 2 above).
- For **Monochrome**, the grid is displayed for contrast only.
- The grid is also displayed when adjusting **Contrast** or **Saturation** with manual adjustment.

Types of Quick Adjust and Manual Adjust

Option	Description
Quick adjust [1]	Adjusts the sharpness, contrast and saturation levels automatically. Setting to the – side reduces the effect of the selected COOLPIX Picture Control, and setting to the + side emphasizes its effect. • Default setting: **0**
Image sharpening	Controls how much outlines are sharpened during shooting. The higher the number, the sharper the image, and the lower the number, the softer the image. Select **A** (auto) for automatic adjustment. • Default setting: **3** for **Standard** or **Monochrome**, **2** for **Neutral** and **4** for **Vivid**
Contrast	Controls the contrast. Setting to the – side gives the image a softer appearance, and setting to the + side gives it a harder appearance. Select lower values to prevent highlights in portrait subjects from being "washed out" in direct sunlight, higher values to preserve detail in misty landscapes and other low contrast subjects. Select **A** (auto) for automatic adjustment. • Default setting: **0**
Saturation [2]	Controls the vividness of colors. Setting to the – side reduces the vividness, and setting to the + side increases the vividness. Select **A** (auto) for automatic adjustment. • Default setting: **0**
Filter effects [3]	Simulates the effect of color filters on monochrome photographs. • **OFF**: Filter effects are not used. • **Y** (yellow), **O** (orange), **R** (red): Enhance contrast. Can be used to tone down the brightness of the sky in landscape photographs. The contrast is strengthened in the order **Y** → **O** → **R**. • **G** (green): Softens skin tones. Suitable for portraits. • Default setting: **OFF**

Option	Description
Toning [3]	Controls the tint used in monochrome photographs from **B&W** (black-and-white), **Sepia**, and **Cyanotype** (blue-tinted monochrome). Pressing the multi selector ▼ when **Sepia** or **Cyanotype** is selected enables you to select a saturation level. Press ◀▶ to adjust the saturation. • Default setting: **B&W** (black-and-white)

[1] Quick adjust is not available in **Neutral**, **Monochrome**, **Custom 1** and **Custom 2**. The values set manually are disabled if quick adjust is used after manual setting.
[2] Not displayed for **Monochrome**.
[3] Only displayed for **Monochrome**.

Notes About Image Sharpening

The effects of **Image sharpening** cannot be previewed in the monitor during shooting. Check the results in playback mode.

Contrast, Saturation and A (Auto)

- Results for contrast and saturation vary with the exposure, and the position and size of the subject in the frame.
- The setting for a COOLPIX Picture Control which has **A** (auto) selected for either **Contrast** or **Saturation** is displayed in green in the COOLPIX Picture Control grid.

Custom Picture Control (COOLPIX Custom Picture Control)

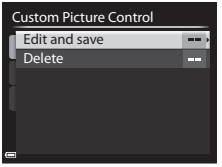
Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Custom Picture Control

Customize the settings of COOLPIX Picture Control (👓25) and register them in **Custom 1** or **Custom 2** of **Picture Control**.

Creating COOLPIX Custom Picture Controls

1 Use the multi selector ▲▼ to select **Edit and save**, and press the OK button.

- Select **Delete** to delete a registered COOLPIX Custom Picture Control.



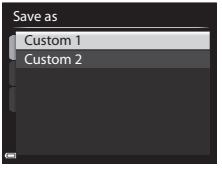
2 Select the original COOLPIX Picture Control (👓25) to be edited, and press the OK button.

3 Use ▲▼ to highlight the desired option and use ◀▶ to select a value (👓25).

- The options are the same as those for adjusting the COOLPIX Picture Control.
- Press the OK button when you finish adjustment.
- To change the adjusted values to the default setting, select **Reset** and press the OK button.

4 Select the registration destination and press the OK button.

- **Custom 1** or **Custom 2** becomes selectable in **Picture Control** or **Custom Picture Control**.
- To change the adjusted values, select **Custom 1** or **Custom 2** in **Picture Control** or **Custom Picture Control**.



White Balance (Adjusting Hue)

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ White balance

Adjust white balance to suit the light source or weather conditions in order to make the colors in images match what you see with your eyes.

- Use **Auto (normal)** under most conditions. Change the setting when you want to adjust the hue of the image you are taking.

Option		Description
AUTO1	Auto (normal) (default setting)	White balance is automatically adjusted to suit lighting conditions. When set to **Auto (warm lighting)**, the images are preserved with warm colors if they are shot under an incandescent light source. When using the flash, white balance is adjusted according to the flash lighting condition.
AUTO2	Auto (warm lighting)	
PRE	Preset manual	Use when the desired result is not achieved with **Auto (normal)**, **Auto (warm lighting)**, **Incandescent**, etc. (🕶31).
☀	Daylight*	White balance is adjusted for direct sunlight.
☀	Incandescent*	Use under incandescent lighting.
▦	Fluorescent	Use under most types of fluorescent lighting. Choose one of **1** (cool-white fluorescent), **2** (day white fluorescent) and **3** (daylight fluorescent).
☁	Cloudy*	Use when taking images under overcast skies.
ϟ	Flash*	Use with the flash.
K	Choose color temp.	Use to directly specify color temperature (🕶30).

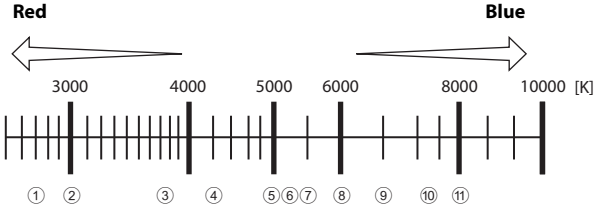
* Fine adjustments in seven steps are available. Apply positive (+) to increase blue hue and negative (–) to increase red hue.

Notes About White Balance

- Lower the flash when white balance is set to any setting other than **Auto (normal)**, **Auto (warm lighting)** or **Flash** (📖56).
- The setting may not be changed when using certain settings of other functions.

Color Temperature

Color temperature is an objective measure of colors of light sources which are expressed in the unit of absolute temperature (K: Kelvin). Light sources with lower color temperatures appear more reddish, while light sources with higher color temperatures appear more bluish.



① Sodium-vapor lamps: 2700K

② Incandescent/ Warm-white fluorescent: 3000K

③ White fluorescent: 3700K

④ Cool-white fluorescent: 4200K

⑤ Day white fluorescent: 5000K

⑥ Direct sunlight: 5200K

⑦ Flash: 5400K

⑧ Cloudy: 6000K

⑨ Daylight fluorescent: 6500K

⑩ High temp. mercury-vapor: 7200K

⑪ Shade: 8000K

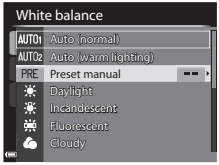
Using Preset Manual

Use the procedure below to measure the white balance value under the lighting used during shooting.

1 Place a white or gray reference object under the lighting that will be used during shooting.

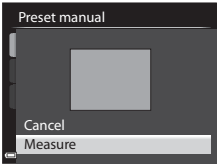
2 Use the multi selector ▲▼ to select **Preset manual**, and press the ⓞ button.

- The lens extends to the zoom position for measurement.



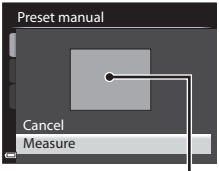
3 Select **Measure**.

- To apply the last measured value, select **Cancel**.



4 Frame the white or gray reference object in the measuring window, and press the ⓞ button to measure the value.

- The shutter is released and measurement is complete (no image is saved).



Measuring window

Notes About Preset Manual

A white balance value for flash lighting cannot be measured with **Preset manual**. When shooting using the flash, set **White balance** to **Auto (normal)**, **Auto (warm lighting)** or **Flash**.

Metering

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Metering

The process of measuring the brightness of the subject to determine the exposure is known as "metering."
Use this option to set the method of how the camera meters exposure.

Option	Description
Matrix (default setting)	The camera uses a wide area of the screen for metering. Recommended for typical shooting.
Center-weighted	The camera meters the entire frame but assigns greatest weight to the subject in the center of the frame. The classic metering for portraits; it preserves background details while letting lighting conditions in the center of the frame determine exposure.*
Spot	The camera meters the area shown by the circle in the center of the frame. This can be used when the subject is much lighter or darker than the background. Ensure that the subject is within the area shown by the circle when shooting.*

* To set focus and exposure for off-center subjects, change **AF area mode** to manual and set the focus area to the center of the frame, and then use focus lock (📖79).

Notes About Metering

- When digital zoom is in effect, **Center-weighted** or **Spot** is selected depending on the magnification of an enlargement.
- The setting may not be changed when using certain settings of other functions.

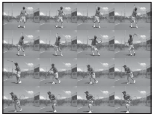
Display on the Shooting Screen

When **Center-weighted** or **Spot** is selected, the metering range guide (📖12) is displayed (except when digital zoom is used).

Continuous Shooting

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Continuous

Option		Description
S	Single (default setting)	One image is captured each time the shutter-release button is pressed.
CH	Continuous H	While the shutter-release button is held all the way down, images are captured continuously. • The frame rate for continuous shooting is about 7 fps and the maximum number of continuous shots is about 7 (when image quality is set to **Normal** and image size is set to 16M **4608×3456**).
CL	Continuous L	While the shutter-release button is held all the way down, images are captured continuously. • The frame rate for continuous shooting is about 1 fps and the maximum number of continuous shots is about 200 (when image quality is set to **Normal** and image size is set to 16M **4608×3456**).
	Pre-shooting cache	Pre-shooting cache shooting begins when the shutter-release button is pressed halfway. When the shutter-release button is pressed the rest of the way down, the camera saves the current image as well as the images captured immediately before the button is pressed (🕶35). Pre-shooting cache makes it easy to capture perfect moments. • The frame rate for continuous shooting is about 15 fps and the maximum number of continuous shots is 20 (including a maximum of 5 frames captured in the pre-shooting cache). • The image quality is fixed at **Normal** and the image size is fixed at 3M (2048 × 1536 pixels).
120	Continuous H: 120 fps	Each time the shutter-release button is pressed all the way, images are captured at a high speed rate. • The frame rate for continuous shooting is about 120 fps and the maximum number of continuous shots is 60. • Image size is fixed at VGA **640×480**.

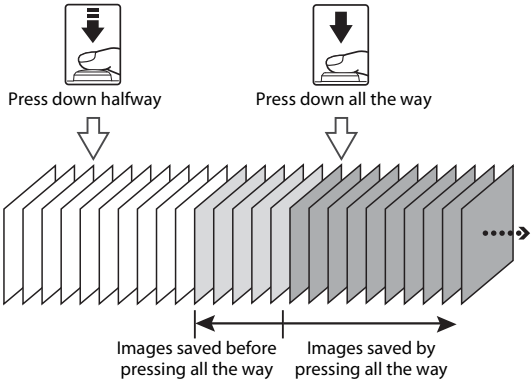
Option		Description
60	Continuous H: 60 fps	Each time the shutter-release button is pressed all the way, images are captured at a high speed rate. • The frame rate for continuous shooting is about 60 fps and the maximum number of continuous shots is 60. • Image size is fixed at 16:9 2M **1920×1080**.
BSS	BSS (Best Shot Selector)	While the shutter-release button is held all the way down, the camera captures a series of up to 10 images and automatically saves the sharpest image. Use when shooting a stationary subject in a place where flash photography is prohibited and camera shake is likely to occur.
	Multi-shot 16	Each time the shutter-release button is pressed all the way, the camera captures a series of 16 images and saves it as a single image. • The frame rate for continuous shooting is about 30 fps. • Image size is fixed at 5M (2560 × 1920 pixels). • Digital zoom is not available. 
	Intvl timer shooting	The camera shoots still images automatically at the specified interval (35).

Notes About Continuous Shooting

- Focus, exposure and white balance are fixed at the values determined with the first shot in each series.
- It may take some time to save the images after shooting.
- When ISO sensitivity increases, noise may appear in captured images.
- The frame rate may become slower depending on the image quality, image size, memory card type or shooting conditions.
- When using **Multi-shot 16**, **Continuous H: 120 fps** or **Continuous H: 60 fps**, banding or variance in brightness or hue may occur in images that were captured under lighting that flashes quickly at high speeds, such as fluorescent, mercury-vapor, or sodium-vapor lighting.
- The setting may not be changed when using certain settings of other functions.

Pre-shooting Cache

When the shutter-release button is pressed halfway or all the way down, images are saved in the manner described below.

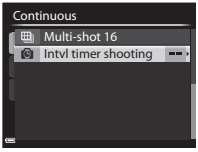


- The pre-shooting cache icon (◎) in the monitor glows green while the shutter-release button is pressed halfway.

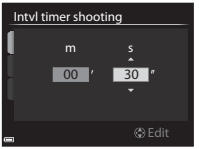
Interval Timer Shooting

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Continuous

1 Use the multi selector ▲▼ to select **Intvl timer shooting**, and then press the OK button.



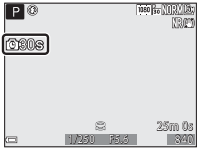
2 Set the desired interval between each shot.



- Use ◀▶ to select an item , and use ▲▼ to set the time.
- Press the (OK) button when setting is complete.

3 Press the MENU button to display the shooting screen.

4 Press the shutter-release button to shoot the first image.



- The shutter is automatically released at the specified interval to shoot subsequent images.
- The monitor turns off and the power-on lamp flashes during the intervals between shots (when the battery is used).

5 When the desired number of images have been taken, press the shutter-release button.

- Shooting ends.
- Shooting ends automatically when the internal memory or memory card becomes full.

Notes About Interval Timer Shooting

- To prevent the camera from turning off unexpectedly during shooting, use a fully charged battery.
- If the AC Adapter EH-62A (available separately; 81) is used, this camera can be powered from an electrical outlet. Do not, under any circumstances, use an AC adapter other than the EH-62A. Failure to observe this precaution could result in overheating or damage to the camera.
- Do not rotate the mode dial to a different setting while performing interval timer shooting.
- If the shutter speed is slow and saving an image takes time compared to the specified interval, some of the shots during interval timer shooting may be canceled.

ISO Sensitivity

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ ISO sensitivity

Higher ISO sensitivity allows darker subjects to be captured. Additionally, even with subjects of similar brightness, images can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced.

- When higher ISO sensitivity is set, images may contain noise.

Option	Description
ISO sensitivity	• **Auto** (default setting): ISO sensitivity is automatically adjusted within a range from ISO 100 to 1600. • **Fixed range auto**: The range in which the camera automatically adjusts ISO sensitivity can be selected from AUTO ISO 400 **ISO 100-400** or AUTO ISO 800 **ISO 100-800**. • **100** to **6400**: ISO sensitivity is fixed at the specified value.
Minimum shutter speed	Set the shutter speed at which ISO sensitivity starts to be automatically adjusted when the shooting mode is **P** or **A**. If the exposure is insufficient with the shutter speed that is set here, the ISO sensitivity is increased automatically to obtain the correct exposure. • The setting is enabled when **ISO sensitivity** is set to **Auto** or **Fixed range auto**. • If the exposure is still insufficient even after ISO sensitivity is increased, the shutter speed slows down. • Default setting: **None**

ISO Sensitivity Display on the Shooting Screen

- When **Auto** is selected, ISO is displayed if the ISO sensitivity automatically increases.
- When **ISO 100-400** or **ISO 100-800** is selected, the maximum value for ISO sensitivity is displayed.

Notes About ISO Sensitivity

- In **M** (manual) mode, when set to **Auto**, **ISO 100-400** or **ISO 100-800**, the ISO sensitivity is fixed at ISO 100.
- The setting may not be changed when using certain settings of other functions.

Exposure Bracketing

Rotate the mode dial to **P**, **S** or **A** ➔ **MENU** button ➔ **P**, **S** or **A** tab (📖9) ➔ Exposure bracketing

The exposure (brightness) can be changed automatically during continuous shooting. This is effective for shooting when it is difficult to adjust the picture brightness.

Option	Description
Off (default setting)	Exposure bracketing is not performed.
±0.3	When the shutter-release button is pressed all the way, three shots are taken in sequence and the camera varies exposure by 0, –0.3, and +0.3 over the shots.
±0.7	When the shutter-release button is pressed all the way, three shots are taken in sequence and the camera varies exposure by 0, –0.7, and +0.7 over the shots.
±1.0	When the shutter-release button is pressed all the way, three shots are taken in sequence and the camera varies exposure by 0, –1.0, and +1.0 over the shots.

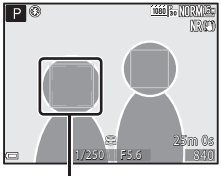
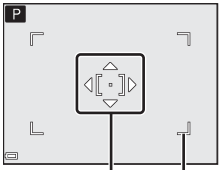
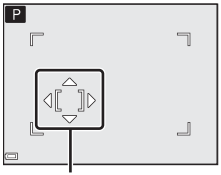
Notes About Exposure Bracketing

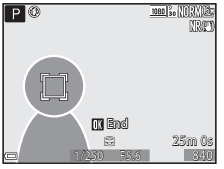
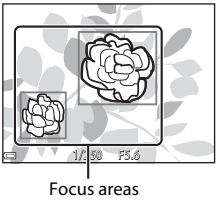
- **Exposure bracketing** is not available in **M** (manual) mode.
- When exposure compensation (📖65) and **±0.3**, **±0.7** or **±1.0** in **Exposure bracketing** are set simultaneously, the combined exposure compensation values are applied.
- The setting may not be changed when using certain settings of other functions.

AF Area Mode

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ AF area mode

Change the method of how the camera selects the focus area for autofocus.

Option	Description
Face priority	When the camera detects a human face, it focuses on that face. See "Using Face Detection" (📖77) for more information. When framing a composition with no human subjects or detected faces, the camera automatically selects one or more of the 9 focus areas containing the subject closest to the camera.  Focus area
Manual (spot) Manual (normal) Manual (wide)	Use the multi selector ▲▼◀▶ or rotate it to move the focus area to where you want to focus. To set ⚡, ⏲, 🌷 or ☀ using the multi selector (📖55), press the OK button to apply the focus area. To move the focus area again, press the OK button again.  Focus area (center) Scope of movable focus area  Focus area (moved)

Option	Description
Subject tracking	Use this function to take images of moving subjects. Register the subject on which the camera focuses. The focus area automatically moves to track the subject. See "Using Subject Tracking" (41) for more information. 
Target finding AF (default setting)	When the camera detects the main subject, it focuses on that subject. See "Using the Target Finding AF" (76). 

Notes About AF Area Mode

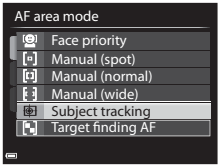
- When digital zoom is in effect, the camera focuses on the area in the center of the frame regardless of the **AF area mode** setting.
- The setting may not be changed when using certain settings of other functions.

Using Subject Tracking

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ AF area mode

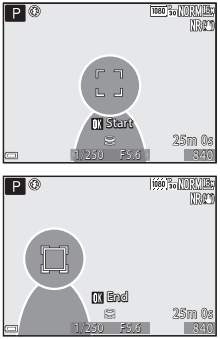
1 Use the multi selector ▲▼ to select **Subject tracking**, and press the OK button.

- Press the MENU button after changing the settings and return to the shooting screen.



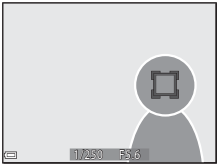
2 Register a subject.

- Align the subject that you want to track with the border in the center of the monitor and press the OK button.
- When the subject is registered, a yellow border (focus area) is displayed around that subject and the camera begins tracking that subject.
- If the subject cannot be registered, the border glows red. Change the composition and try registering the subject again.
- To cancel subject registration, press the OK button.
- If the camera can no longer track the registered subject, the focus area disappears. Register the subject again.



3 Press the shutter-release button fully to take the picture.

- If the shutter-release button is pressed while the focus area is not displayed, the camera focuses on the area in the center of the frame.



Notes About Subject Tracking

- If you perform operations such as zooming while the camera is tracking the subject, the registration is canceled.
- Subject tracking may not be possible in certain shooting conditions.

Autofocus Mode

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Autofocus mode

Select how the camera focuses when shooting still images.

Option	Description
AF-S Single AF (default setting)	The camera focuses only when the shutter-release button is pressed halfway.
AF-F Full-time AF	The camera continues focusing even when the shutter-release button is not pressed halfway. The sound of lens drive movement is heard while the camera focuses.

Notes About Autofocus Mode

The setting may not be changed when using certain settings of other functions.

Autofocus Mode for Movie Recording

Autofocus mode for movie recording can be set with **Autofocus mode** (🔗58) in the movie menu.

Flash Exp. Comp.

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Flash exp. comp.

Adjust the flash output.
Use this option when the flash is too bright or too dark.

Option	Description
+0.3 to +2.0	The flash output is increased from +0.3 to +2.0 EV, in increments of 1/3 EV, to make the main subject of the frame appear brighter.
0.0 (default setting)	The flash output is not adjusted.
–0.3 to –2.0	The flash output is reduced from –0.3 to –2.0 EV, in increments of 1/3 EV, to prevent unwanted highlights or reflections.

Noise Reduction Filter

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Noise reduction filter

Set the strength of the noise reduction function that is normally performed when saving images.

Option	Description
NR+ High	Performs noise reduction at a level higher than the standard strength.
NR Normal (default setting)	Performs noise reduction at the standard strength.
NR- Low	Performs noise reduction at a level lower than the standard strength.

Active D-Lighting

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Active D-Lighting

Details in highlights and shadows are preserved, and the natural contrast that is seen with the naked eye is well reproduced in the image taken. This is particularly effective for shooting scenes with high contrast, such as brightly lit outdoor scenery from a dark room or shaded subjects at a sunny seaside.

Option	Description
High Normal Low	Set the effect level.
OFF Off (default setting)	Active D-Lighting is not applied.

Notes About Active D-Lighting

- Additional time is required to save images after shooting.
- The setting may not be changed when using certain settings of other functions.

Active D-Lighting Versus D-Lighting

The **Active D-Lighting** option in the shooting menu reduces exposure before shooting to adjust the dynamic range properly. The **D-Lighting** (🕶8) option in the playback menu readjusts the dynamic range properly in images captured.

Multiple Exposure

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Multiple exposure

The camera combines two to three images and saves them as a single image.

Option	Description
Multiple exposure mode	Shoots images in multiple exposure mode when set to **On**. • Individual images are also saved. • Default setting: **Off**
Auto gain	Set whether or not to automatically adjust the brightness of the image when combining images. • Default setting: **On**

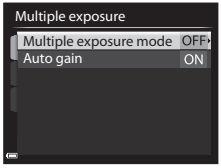
Notes About Multiple Exposure

- It may take some time to combine images.
- Multiple exposure is terminated if the auto off function (📖91) triggers the standby mode during shooting. When shooting with a long interval between shots, setting a longer time for the auto off function is recommended.
- The setting may not be changed when using certain settings of other functions.
- When shooting at a slow shutter speed in multiple exposure mode, noise (bright spots) may appear in saved images.

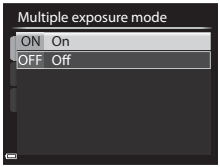
Multiple Exposure Shooting

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Multiple exposure

1 Use the multi selector ▲▼ to select **Multiple exposure mode**, and then press the OK button.

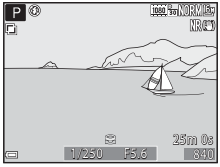


2 Select **On**, and then press the ⓞⓚ button.

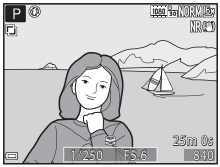


3 Press the MENU button to display the shooting screen.

4 Press the shutter-release button to shoot the first image.



5 Press the shutter-release button to shoot the second image.



- Frame the picture while looking at the first image displayed translucently.
- When shooting the second image, the combined image of the first and second images is saved, and displayed translucently.
- To end multiple exposure at the second image, set **Multiple exposure mode** to **Off** or change the mode dial to any mode other than **P**, **S**, **A**, **M** or **U**.

6 Press the shutter-release button to shoot the third image.

- The combined image of the first to third images is saved and multiple exposure ends.
- It may take some time until the third image is shot.

Zoom Memory

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Zoom memory

Option	Description
On	When the zoom control is moved, the zoom position (equivalent to focal length/angle of view in 35mm [135] format) is switched to the positions that have been selected by setting the check box to on in this menu option. The following settings are available: **24 mm**, **28 mm**, **35 mm**, **50 mm**, **85 mm**, **105 mm**, **135 mm**, **200 mm**, **300 mm**, **400 mm**, **500 mm**, **600 mm**, **800 mm and 1000 mm**. • Choose the focal length with the multi selector, and then press the OK button to set the check box to on [✔] or off. • The default setting is on [✔] for all the check boxes. • To finish setting, press the multi selector ▶. • The zoom position set in the **Startup zoom position** is automatically set to on [✔].
Off (default setting)	The zoom position can be moved to any position, including the positions that can be set with **On**.

Notes About Zoom Operation

- When more than one focal length has been set, move the zoom control to switch to the focal length closest to that before the operation. To switch to a different focal length, release the zoom control and then move it again.
- Set **Zoom memory** to **Off** when using the digital zoom.

Startup Zoom Position

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ Startup zoom position

Set the zoom position (equivalent to focal length/angle of view in 35mm [135] format) for when the camera is turned on.
The following settings are available: **24 mm** (default setting), **28 mm**, **35 mm**, **50 mm**, **85 mm**, **105 mm** and **135 mm**.

M Exposure Preview

Rotate the mode dial to **P**, **S**, **A**, **M** or **U** ➔ MENU button ➔ **P**, **S**, **A**, **M** or **U** tab (📖9) ➔ M exposure preview

Set whether or not to reflect the brightness to the shooting screen when the exposure is changed in **M** (manual) mode.

Option	Description
On	Reflects the brightness to the shooting screen.
Off (default setting)	Does not reflect the brightness to the shooting screen.

The Playback Menu

See "Editing Still Images" (🔗7) for information about image editing functions.

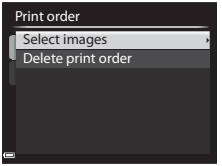
Print Order (Creating a DPOF Print Order)

Press the ▶ button (playback mode) ➔ MENU button (📖8) ➔ Print order

If you configure print order settings in advance, you can use them with the printing methods listed below.

- Taking the memory card to a digital photo lab that supports DPOF (Digital Print Order Format) printing.
- Inserting the memory card into a DPOF-compatible printer's card slot.
- Connecting the camera to a PictBridge-compatible printer (🔗15).

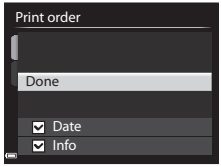
1 Use the multi selector ▲▼ to select **Select images**, and press the OK button.



2 Select images (up to 99) and the number of copies (up to 9) of each.

- Use the multi selector ◀▶ or rotate it to select images, and use ▲▼ to specify the number of copies to be printed.
- Images selected for printing are indicated by the check mark icon and the numeral indicating the number of copies to be printed. If no copies have been specified for images, the selection is canceled.
- Move the zoom control toward **T** (🔍) to switch to full-frame playback or **W** (▦) to switch to thumbnail playback.
- Press the OK button when setting is complete.

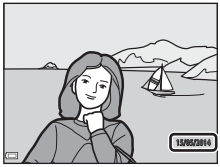
3 Select whether or not to print shooting date and shooting information.



- Select **Date** and press the OK button to print the shooting date on all images.
- Select **Info** and press the OK button to print the shutter speed and aperture value on all images.
- Lastly, select **Done** and press the OK button to complete the print order.

Notes About Printing Shooting Date and Shooting Information

- Some printers may not be able to print the shooting date and shooting information.
- Shooting information is not printed when the camera is connected to a printer.
- The **Date** and **Info** settings are reset each time the **Print order** option is displayed.
- The date printed is that saved when the image was captured.
- For images taken with the **Print date** (64) option enabled, only the date imprinted at the time of shooting are printed, even if the **Print order** date option is enabled for the images.



Canceling Existing Print Order

Select **Delete print order** in step 1 of print order (48).

More Information

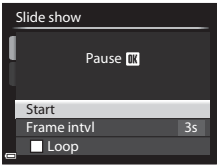
See "Printing Images of Size 1:1" (23) for more information.

Slide Show

Press the ▶ button (playback mode) ➔ MENU button (📖8) ➔ Slide show

Play back images one by one in an automated "slide show." When movie files (📖89) are played back in the slide show, only the first frame of each movie is displayed.

1 Use the multi selector ▲▼ to select **Start** and press the OK button.



- The slide show begins.
- To change the interval between images, select **Frame intvl**, press the OK button, and specify the desired interval time before selecting **Start**.
- To repeat the slide show automatically, select **Loop** and press the OK button before selecting **Start**.
- The maximum playback time is up to about 30 minutes even if **Loop** is enabled.

2 Select End or Restart.

- The screen shown on the right is displayed after the slide show ends or is paused. To exit the show, select ■ and then press the OK button. To resume the slide show, select ▶ and then press the OK button.

Operations During Playback

- Use ◀▶ to display the previous/next image. Press and hold to rewind/fast forward.
- Press the OK button to pause or end the slide show.

Protect

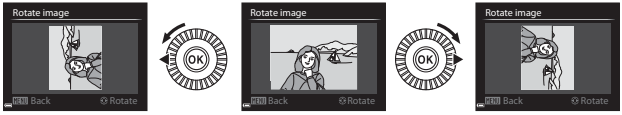
Press the ▶ button (playback mode) ➔ MENU button (📖8) ➔ Protect

The camera protects selected images from accidental deletion.
Select images to protect or cancel protection for previously protected images from the image selection screen (📖84).
Note that formatting the camera's internal memory or the memory card (🔗69) permanently deletes protected files.

Rotate Image

Press the ▶ button (playback mode) ➔ MENU button (📖8) ➔ Rotate image

Specify the orientation in which saved images are displayed during playback. Still images can be rotated 90 degrees clockwise or 90 degrees counterclockwise.
Images that were saved in the "tall" orientation can be rotated up to 180 degrees in either direction.
Select an image from the image selection screen (📖84). When the Rotate image screen is displayed, use the multi selector ◀▶ or rotate it to rotate the image 90 degrees.



Rotate 90 degrees counterclockwise

Rotate 90 degrees clockwise

Press the OK button to finalize display orientation, and save orientation information with the image.

Voice Memo

Press the ▶ button (playback mode) ➔ select an image ➔ MENU button (📖8) ➔ 🎙 Voice memo

Voice memos can be recorded and attached to images.

Recording Voice Memos

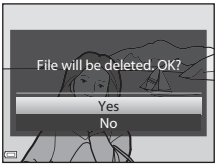
- Press and hold the OK button to record (up to about 20 seconds).
- Do not touch the microphone.
- During recording, REC and 🎙 flash in the monitor.
- The voice memo playback screen is displayed after recording ends. Press the OK button to play back the voice memo.
- Delete the current voice memo before recording a new voice memo.
- 🎙 is displayed for images with a voice memo when in full-frame playback mode.
- Press the multi selector ◀ before or after recording a voice memo to return to the playback menu.

Playing Voice Memos

Select an image with 🎙 displayed before pressing the MENU button.

- Press the OK button to play the voice memo. Press the button again to stop playback.
- Move the zoom control during playback to adjust playback volume.
- Press ◀ before or after playing a voice memo to return to the playback menu.

Deleting Voice Memos



Press the 🗑 button on the voice memo playback screen. Use ▲▼ to select **Yes** and press the OK button.

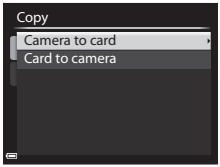
- To delete a voice memo for a protected image, the **Protect** setting must first be disabled.

Copy (Copy Between Internal Memory and Memory Card)

Press the ▶ button (playback mode) ➔ MENU button (📖8) ➔ Copy

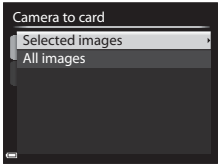
Copy images or movies between the internal memory and a memory card.

1 Use the multi selector ▲▼ to select a destination option to which images are copied and press the OK button.



2 Select a copy option and press the OK button.

- If you choose the **Selected images** option, use the image selection screen to specify images (📖84).



Notes About Copying Images

- Only files in formats that this camera can save can be copied.
- Operation is not guaranteed with images captured with another make of camera or that have been modified on a computer.
- The **Print order** (🕶48) settings configured for images are not copied.

Notes About Copying Images in a Sequence

- If you select a key picture of a sequence in **Selected images**, all images in the sequence are copied.
- If you press the MENU button while images in a sequence are displayed, only the **Card to camera** copy option is available. All images in the sequence are copied if you select **Current sequence**.

Copying to a Memory Card That Contains No Images

When the camera is switched to playback mode, **Memory contains no images.** is displayed. Press the MENU button to select **Copy**.

Sequence Display Options

Press the ▶ button (playback mode) ➔ MENU button (📖8) ➔ Sequence display options

Select the method used to display images in the sequence (👓5).

Option	Description
Individual pictures	Displays each image in a sequence individually. is displayed on the playback screen.
Key picture only (default setting)	Displays only the key picture for images in a sequence.

Settings are applied to all sequences, and the setting is saved in the camera's memory even if the camera is turned off.

Choose Key Picture

Press the ▶ button (playback mode) ➔ display a sequence for which you want to change the key picture ➔ MENU button (📖8) ➔ Choose key picture

Specify a different image in the sequence as the key picture.

- When the key picture selection screen is displayed, select an image (📖84).

The Movie Menu

Movie Options

Enter shooting mode ➔ MENU button ➔ (movie) tab (□9) ➔ Movie options

Select the desired movie option to record.
Select normal speed movie options to record at normal speed, or HS movie options (⊶56) to record in slow or fast motion.

- Memory cards (Class 6 or higher) are recommended for recording movies (□21).

Normal Speed Movie Options

Option (Image size/ Frame rate, File format)[1,2]	Image size	Aspect ratio (horizontal to vertical)
1080/30p 1080/25p (default setting)	1920 × 1080	16:9
1080/60i 1080/50i	1920 × 1080	16:9
720/30p 720/25p	1280 × 720	16:9
iFrame 720/30p[3] iFrame 720/25p[3]	1280 × 720	16:9
480/30p 480/25p	640 × 480	4:3

[1] The items and frame rate that can be set vary depending on the settings of **Video mode** in the **TV settings** (⊶70) setup menu.
[2] **1080/60i** and **1080/50i** use interlace system for recording, while other settings use progressive scanning system for recording.
[3] iFrame is a format supported by Apple Inc. The movie editing functions cannot be used (⊶20).

HS Movie Options

Recorded movies are played back in fast or slow motion.

See "Playing Back in Slow Motion and Fast Motion" (57) for more information.

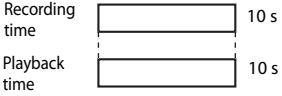
Option	Image size Aspect ratio (horizontal to vertical)	Description
480p 120 / 480p 100 HS 480/4×	640 × 480 4:3	1/4-speed slow motion movies • Max. recording time: 7 minutes 15 seconds (playback time: 29 minutes)
720p 60 / 720p 50 HS 720/2×	1280 × 720 16:9	1/2-speed slow motion movies • Max. recording time: 14 minutes 30 seconds (playback time: 29 minutes)
1080p 15 / 1080p 25 HS 1080/ 0.5×	1920 × 1080 16:9	2× speed fast motion movies • Max. recording time: 29 minutes (playback time: 14 minutes 30 seconds)

Notes About HS Movie

- Sound is not recorded.
- Zoom position, focus, exposure, and white balance are locked when movie recording starts.
- Some options for **Movie options** cannot be selected when using certain special effects.

Playing Back in Slow Motion and Fast Motion

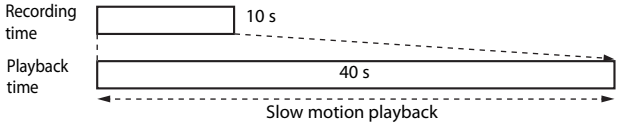
When recording at normal speed:



When recording at 480p 120 / 480p 100 HS 480/4×:

Movies are recorded at 4× normal speed.

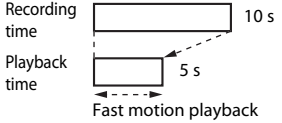
They are played back in slow motion at 4× slower speed.



When recording at 1080p 15 / 1080p 25 HS 1080/0.5×:

Movies are recorded at 1/2 normal speed.

They are played back in fast motion at 2× faster speed.



Autofocus Mode

Enter shooting mode ➔ MENU button ➔ (movie) tab (📖9) ➔ Autofocus mode

Set how the camera focuses when recording movies.

Option	Description
AF-S Single AF (default setting)	Focus is locked when movie recording starts. Select this option when the distance between the camera and the subject will remain fairly consistent.
AF-F Full-time AF	The camera focuses continuously. Select this option when the distance between the camera and subject will change significantly during recording. The sound of the camera focusing may be heard in the recorded movie. Use of **Single AF** is recommended to prevent the sound of the camera focusing from interfering with recording.

Notes About Autofocus Mode

- When an HS movie option is selected in **Movie options**, the setting is fixed at **Single AF**.
- The setting may not be changed when using certain settings of other functions.

The Setup Menu

Welcome Screen

Press the MENU button ➔ tab (📖9) ➔ Welcome screen

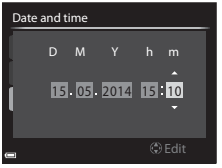
Configure the welcome screen that is displayed when you turn on the camera.

Option	Description
None (default setting)	Does not display the welcome screen.
COOLPIX	Displays a welcome screen with the COOLPIX logo.
Select an image	Displays an image selected for the welcome screen. • The image selection screen is displayed. Select an image (📖84) and press the OK button. • Because a copy of the selected image is saved in the camera, it will be displayed when the camera is turned on, even if the original image is deleted. • An image cannot be selected if its aspect ratio is different from that of the screen, or if the image size is extremely small after the small picture or crop function is applied.

Time Zone and Date

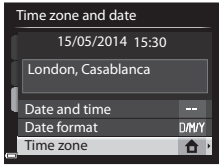
Press the MENU button ➔ tab (📖9) ➔ Time zone and date

Set the camera clock.

Option	Description
Date and time	• Select an item: Press the multi selector ◀▶ (changes between **D**, **M**, **Y**, **h**, and **m**). • Edit the date and time: Press ▲▼. Date and time can also be changed by rotating the multi selector or command dial. • Apply the setting: Select the **m** setting and press the OK button or ▶. 
Date format	Select **Year/Month/Day**, **Month/Day/Year**, or **Day/Month/Year**.
Time zone	Set time zone and daylight saving time. • When **Travel destination** (✈) is set after having set the home time zone (🏠), the time difference between the travel destination and the home time zone is automatically calculated, and the date and time are saved for the selected region.

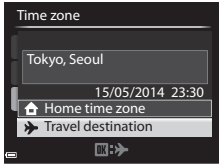
Setting the Time Zone

1 Use the multi selector ▲▼ to select **Time zone** and press the ⓞ button.

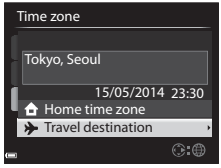


2 Select **Home time zone** or **Travel destination** and press the ⓞ button.

- The date and time displayed in the monitor changes depending on whether the home time zone or travel destination is selected.

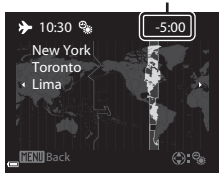


3 Press ▶.



4 Use ◀▶ to select the time zone.

- The time difference between home and the travel destination is displayed.
- Press ▲ to enable daylight saving time function, and is displayed. Press ▼ to disable the daylight saving time function.
- Press the ⓞ button to apply the time zone.
- If the correct time is not displayed for the home or travel destination time zone setting, set the appropriate time in **Date and time**.



Monitor Settings

Press the MENU button ➔ tab (📖9) ➔ Monitor settings

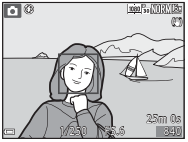
Option	Description
Photo info	Set information displayed in the monitor during shooting and playing back.
Image review	**On** (default setting): The captured image is displayed in the monitor immediately after shooting and the monitor display returns to the shooting screen. **Off**: The captured image is not displayed immediately after shooting.
Brightness	Set the monitor brightness to one of 5 levels. • Default setting: **3** • Cannot be set when the viewfinder is used.
View/hide histograms	**On**: Displays a graph that shows the brightness distribution in the image (📖65). **Off** (default setting): Does not display a graph.

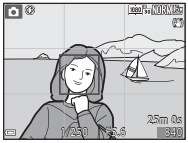
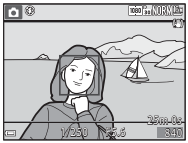
Notes About View/Hide Histograms

Histograms are not displayed in the following situations.

- When recording a movie
- When the enlarged center of the image is displayed in MF (manual focus)
- When the flash mode, self-timer or focus mode menu is displayed

Photo Info

	Shooting mode	Playback mode
Show info		
Auto info (default setting)	Current settings and operation guide are displayed as in **Show info**. If no operations are performed for a few seconds, the information is hidden as in **Hide info**. Information is displayed again when the next operation is performed.	

	Shooting mode	Playback mode
Hide info		
Framing grid+auto info	 In addition to information shown with **Auto info**, a framing grid is displayed to help frame images.	 The current settings or operation guide is displayed as in **Auto info**.
Movie frame+auto info	 In addition to information shown with **Auto info**, a frame is displayed before recording begins that represents the area that will be captured when recording movies. The movie frame is not displayed when recording movies.	 The current settings or operation guide is displayed as in **Auto info**.

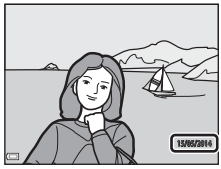
Notes About Framing Grid

When the enlarged center of the image is displayed in MF (manual focus), the framing grid is not displayed.

Print Date (Imprinting Date and Time on Images)

Press the MENU button ➔ tab (📖9) ➔ Print date

The shooting date and time can be imprinted on the images when shooting, allowing the information to be printed even from printers that do not support date printing (🔗49).



Option	Description
DATE Date	Date is imprinted on images.
DATE Date and time	Date and time are imprinted on images.
OFF Off (default setting)	Date and time are not imprinted on images.

Notes About Print Date

- Imprinted dates form a permanent part of image data and cannot be deleted. The date and time cannot be imprinted on images after they have been captured.
- The date and time cannot be imprinted in the following situations.
  - When the scene mode is set to **Easy panorama**
  - When **Pre-shooting cache**, **Continuous H: 120 fps** or **Continuous H: 60 fps** is selected for **Continuous** (🔗33)
  - When recording movies
  - When saving still images during movie recording
- The imprinted date and time may be difficult to read when using a small image size.

Vibration Reduction

Press the MENU button ➔ tab (📖9) ➔ Vibration reduction

Set to reduce the effects of camera shake while shooting.
Set **Vibration reduction** to **Off** when using a tripod to stabilize the camera during shooting.

Option	Description
Normal (default setting)	Compensates camera shake that commonly occurs when shooting at telephoto zoom positions or slow shutter speeds. The camera automatically detects the panning direction and only compensates for vibration caused by camera shake. When the camera is panned horizontally, for example, vibration reduction only reduces vertical shake. If the camera is panned vertically, vibration reduction only compensates for horizontal shake.
Active	Camera shake is automatically compensated during shooting if a comparatively large camera shake is likely to occur when shooting from a car or under poor foothold conditions.
OFF Off	Vibration reduction is disabled.

Notes About Vibration Reduction

- After turning on the camera or after switching from playback mode to shooting mode, wait for the shooting mode screen to be displayed completely before taking images.
- Images displayed in the camera monitor immediately after shooting may be displayed blurry.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.

Motion Detection

Press the MENU button ➔ tab (📖9) ➔ Motion detection

Enable motion detection to reduce the effects of subject movement and camera shake when shooting still images.

Option	Description
Auto	Motion detection is enabled with some shooting modes or settings, when is displayed on the shooting screen. When the camera detects subject movement or camera shake, turns green, and the ISO sensitivity and shutter speed are automatically increased to reduce blurring.
Off (default setting)	Motion detection is disabled.

Notes About Motion Detection

- Motion detection may be unable to eliminate the effects of subject movement and camera shake in some situations.
- Motion detection may be disabled if the subject exhibits significant movement or is too dark.
- The images captured using motion detection may be somewhat "grainy" in appearance.

AF Assist

Press the MENU button ➔ tab (📖9) ➔ AF assist

Enable or disable the AF-assist illuminator which assists autofocus operation.

Option	Description
Auto (default setting)	The AF-assist illuminator automatically lights up when the subject is dimly lit. The illuminator has a range of about 3.0 m (9 ft 10 in.) at the maximum wide-angle position and about 3.0 m (9 ft 10 in.) at the maximum telephoto position. • Note that for some scene modes or focus areas, the AF-assist illuminator may not light.
Off	The AF-assist illuminator does not light.

Digital Zoom

Press the MENU button ➔ tab (📖9) ➔ Digital zoom

Option	Description
On (default setting)	Digital zoom is enabled.
Off	Digital zoom is disabled.

Notes About Digital Zoom

- Digital zoom cannot be used in the following scene modes.
  - **Scene auto selector**, **Portrait**, **Night portrait**, **Easy panorama**, **Pet portrait**
- Digital zoom cannot be used when using certain settings of other functions.
- When digital zoom is in effect, **Metering** (🔗32) is set to **Center-weighted** or **Spot** depending on the magnification of an enlargement.

Sound Settings

Press the MENU button ➔ tab (📖9) ➔ Sound settings

Option	Description
Button sound	When **On** (default setting) is selected, the camera produces one beep when operations are performed, two beeps when focus is acquired on the subject, and three beeps when an error occurs. The start-up sound is also produced. • Sounds are disabled when using **Pet portrait** or **Bird-watching** scene mode. • The start-up sound is not produced when **Welcome screen** is set to **None**.
Shutter sound	When **On** (default setting) is selected, the shutter sound is produced when the shutter is released. • The shutter sound is not produced when using continuous shooting mode, when recording movies, or when using **Pet portrait** or **Bird-watching** scene mode.

Auto Off

Press the MENU button ➔ tab (📖9) ➔ Auto off

Set the amount of time that elapses before the camera enters standby mode (📖23).
You can select **30 s**, **1 min** (default setting), **5 min**, or **30 min**.

Notes About Auto Off

The time that passes before the camera enters standby mode is fixed in the following situations:

- When a menu is displayed: 3 minutes (when auto off is set to **30 s** or **1 min**)
- When the AC adapter is connected: 30 minutes

Format Memory/Format Card

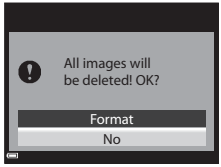
Press the MENU button ➔ tab (📖9) ➔ Format memory/Format card

Use this option to format the internal memory or a memory card. ***Formatting the internal memory or memory cards permanently deletes all data. Data that has been deleted cannot be recovered.*** Make sure to transfer important images to a computer before formatting.

- Do not turn the camera off or open the battery-chamber/memory card slot cover during formatting.

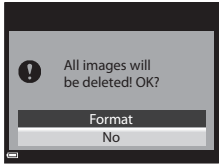
Formatting the Internal Memory

Remove the memory card from the camera. The **Format memory** option is displayed in the setup menu.



Formatting Memory Cards

Insert a memory card in the camera. The **Format card** option is displayed in the setup menu.



Language

Press the MENU button ➔ tab (📖9) ➔ Language

Select a language for display of camera menus and messages.

TV Settings

Press the MENU button ➔ tab (📖9) ➔ TV settings

Adjust settings for connection to a TV.

Option	Description
Video mode	Select from **NTSC** and **PAL**. Both **NTSC** and **PAL** are standards for analog color television broadcasting. • The available frame rates in **Movie options** (🕶55) change depending on the setting of the video mode.
HDMI	Select a resolution for HDMI output. When **Auto** (default setting) is selected, the option best suited to the TV to which the camera is connected is automatically selected from **480p**, **720p**, or **1080i**.
HDMI device control	When **On** (default setting) is selected, the HDMI-CEC-compatible TV's remote control can be used to control the camera during playback (🕶14).

HDMI and HDMI-CEC

HDMI (High-Definition Multimedia Interface) is a multimedia interface.

HDMI-CEC (HDMI-Consumer Electronics Control) allows compatible devices to inter-operate.

Charge by Computer

Press the MENU button ➔ tab (📖9) ➔ Charge by computer

Option	Description
AUTO Auto (default setting)	When the camera is connected to a computer that is running (📖93), the battery inserted into the camera is automatically charged using power supplied by the computer.
Off	The battery inserted into the camera is not charged when the camera is connected to a computer.

Notes About Charging with a Computer

- When connected to a computer, the camera automatically turns on and starts charging. If the camera is turned off, charging stops.
- About 4 hours and 50 minutes are required to charge a fully exhausted battery. Charging time increases when images are transferred while the battery is charging.
- The camera turns off automatically if there is no communication with the computer for 30 minutes after the battery has finished charging.

When the Charge Lamp Quickly Flashes Green

Charging cannot be performed, possibly due to one of the reasons described below.

- The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F).
- The USB cable is not connected correctly, or the battery is faulty. Make sure the USB cable is connected correctly and replace the battery if necessary.
- The computer is in sleep mode and is not supplying power. Wake up the computer.
- The battery cannot be charged because the computer cannot supply power to the camera due to the computer's settings or its specifications.

Toggle Av/Tv Selection

Press the MENU button ➔ tab (📖9) ➔ Toggle Av/Tv selection

Switch the method for setting the flexible program, shutter speed or aperture value when shooting mode is set to **P**, **S**, **A**, **M** or **U**.

Option	Description
Do not toggle selection (default setting)	Use the command dial to set the flexible program or shutter speed, and the multi selector to set the aperture value.
Toggle selection	Use the multi selector to set the flexible program or shutter speed, and the command dial to set the aperture value.

Reset File Numbering

Press the MENU button ➔ tab (📖9) ➔ Reset file numbering

When **Yes** is selected, the sequential numbering of file numbers is reset (🔗80). After resetting, a new folder is created and the file number for the next image taken starts with "0001."

Notes About Reset File Numbering

Reset file numbering cannot be applied when the folder number reaches 999 and there are images in the folder. Insert a new memory card, or format the internal memory/memory card (🔗69).

Folders for Storing Files

Still images, movies and voice memos shot or recorded with this camera are saved in folders of the internal memory/memory card.

- Sequential numbers are added to folder names in ascending order, starting with "100" and ending with "999" (the folder names are not displayed on the camera).
- A new folder is created in the following situations.
  - When the number of files in a folder reaches 200
  - When a file in a folder is numbered "9999"
  - When **Reset file numbering** is performed
- A new folder is created each time a series of images are captured using interval timer shooting, and the images are saved in that folder with file numbers starting with "0001."

Blink Warning

Press the MENU button ➔ tab (📖9) ➔ Blink warning

Select whether or not the camera detects human subjects that have blinked using face detection (📖77) when shooting in the following modes:

- **Scene auto selector**, **Portrait** or **Night portrait** (when **Tripod** is selected) scene mode (📖36)
- When shooting mode is set to **P**, **S**, **A**, **M** or **U** (when **Face priority** (👓39) is selected for **AF area mode** option)

Option	Description
On	When one or more human subjects may have blinked in an image captured using face detection, the **Did someone blink?** screen is displayed in the monitor. Check the image and determine whether or not another image should be captured.
Off (default setting)	Blink warning is disabled.

The Blink Warning Screen

Faces detected by the blink warning are displayed inside a border.

The operations described below are available.

- To enlarge the face: Move the zoom control toward **T** (Q). If more than one face is detected, use the multi selector ◀▶ to select the desired face.
- To switch to full-frame playback: Move the zoom control toward **W** (▦).

If you press the OK button, or if no operations are performed for a few seconds, the camera returns to shooting mode.

Notes About Blink Warning

- The blink warning is disabled in the following situations.
  - When the smile timer is selected (📖60)
  - When an option other than **Single** (👓33) is selected for continuous shooting
  - When an option other than **Off** (👓38) is selected for exposure bracketing
  - When **On** (👓44) is selected for **Multiple exposure mode**
- The blink warning may not function properly in some shooting conditions.

Eye-Fi Upload

Press the MENU button ➔ tab (📖9) ➔ Eye-Fi upload

Option	Description
Enable (default setting)	Upload images created by the camera to a preselected destination.
Disable	Images are not uploaded.

Notes About Eye-Fi Cards

- Note that images will not be uploaded if signal strength is insufficient even if **Enable** is selected.
- Remove your Eye-Fi card from the camera where wireless devices are prohibited. Signals may be transmitted even if **Disable** is selected.
- Refer to the instruction manual of your Eye-Fi card for more information. In the event of malfunction, contact the card manufacturer.
- The camera can be used to turn Eye-Fi cards on and off, but may not support other Eye-Fi functions.
- The camera is not compatible with the Endless Memory function. When it is set on a computer, disable the function. If the Endless Memory function is enabled, the number of images taken may not be displayed correctly.
- Eye-Fi cards are for use only in the country of purchase. Observe all local laws concerning wireless devices.
- Leaving the setting as **Enable** will result in the battery being depleted in a shorter period of time.

Eye-Fi Communication Indicator

The communication status of the Eye-Fi card in the camera can be confirmed in the monitor (📖10).

- : **Eye-Fi upload** is set to **Disable**.
- (lights): Eye-Fi upload enabled; waiting to begin upload.
- (flashes): Eye-Fi upload enabled; uploading data.
- : Eye-Fi upload enabled but no images available for upload.
- : An error occurred. The camera cannot control the Eye-Fi card.

Peaking

Press the MENU button ➔ tab (📖9) ➔ Peaking

Option	Description
On (default setting)	When operating manual focus, focusing is assisted by highlighting areas that are in focus in white on the image displayed in the monitor (📖63, 64).
Off	Peaking is disabled.

Reset All

Press the MENU button ➔ tab (📖9) ➔ Reset all

When **Reset** is selected, the camera's settings are restored to their default values.

- Some settings, such as **Time zone and date** or **Language**, are not reset.
- User settings that were saved in U of the mode dial are not reset. To reset these settings, use **Reset user settings** (📖54).

Resetting File Numbering

To reset file numbering to "0001", delete all images saved in the internal memory or on the memory card before selecting **Reset all**. **Reset file numbering** can also be used to reset to "0001" (👓72).

Firmware Version

Press the MENU button ➔ tab (📖9) ➔ Firmware version

View the current camera firmware version.

Error Messages

Refer to the table below if an error message is displayed.

Display	Cause/Solution	🕮
Battery temperature is elevated. The camera will turn off.	The camera turns off automatically. Wait until the battery has cooled before resuming use.	–
The camera will turn off to prevent overheating.	The inside of the camera has become hot. The camera turns off automatically. Wait until the camera has cooled before resuming use.	–
Memory card is write protected.	The write-protect switch is in the "lock" position. Slide the write-protect switch to the "write" position.	–
This card cannot be used.	An error occurred while accessing the memory card. • Use an approved card. • Check that the terminals are clean. • Confirm that the memory card is correctly inserted.	 21 20 20
This card cannot be read.		
Card is not formatted. Format card?	The memory card has not been formatted for use in the camera. Formatting deletes all data saved on the memory card. If you need to keep copies of any images, make sure to select **No** and save the copies to a computer or other medium before formatting the memory card. Select **Yes** and press the ⓞ button to format the memory card.	20, 5
Not available if Eye-Fi card is locked.	The write-protect switch of the Eye-Fi card is in the "lock" position.	–
	An error occurred while accessing the Eye-Fi card. • Check that the terminals are clean. • Confirm that the Eye-Fi card is correctly inserted.	 20 20
Out of memory.	Delete images or insert a new memory card.	33, 90, 20

Display	Cause/Solution	🕮
Image cannot be saved.	An error occurred while saving the image. Insert a new memory card or format the internal memory or memory card.	20, 69
	The camera has run out of file numbers. Insert a new memory card or format the internal memory or memory card.	
	The image cannot be used for the welcome screen.	59
	There is insufficient space to save the copy. Delete images from the destination.	33, 90
Sound file cannot be saved.	A voice memo cannot be attached to this image. • Voice memos cannot be attached to movies. • Select an image captured with this camera.	– 52
Image cannot be modified.	• Select images that support the editing function. • Images captured with cameras other than this camera cannot be edited.	7 –
Cannot record movie.	A time-out error occurred while saving the movie on the memory card. Select a memory card with a faster write speed.	21
Cannot reset file numbering.	File numbering cannot be reset because the sequential number of a folder has reached the upper limit. Insert a new memory card or format the internal memory or memory card.	20, 69
Memory contains no images.	There are no images in the internal memory or on the memory card. • Remove the memory card from the camera to play back images in the camera's internal memory. • To copy the images saved in the camera's internal memory to the memory card, press the **MENU** button to select **Copy** in the playback menu.	20 53
File contains no image data.	The file was not created or edited with this camera.	–
This file cannot be played back.	The file cannot be viewed on this camera. View the file using a computer or the device used to create or edit this file.	

Display	Cause/Solution	🕮
All images are hidden.	• There are no images available for a slide show, etc. • There are no images that can be displayed on the image selection screen for deletion.	–
This image cannot be deleted.	The image is protected. Disable protection.	51
Raise the flash.	• When the scene mode is **Scene auto selector**, you can take an image even if the flash is lowered but the flash will not fire. • When the scene mode is **Night portrait** or **Backlighting** with **HDR** set to **Off**, you must raise the flash to take an image.	39 38, 42
Lens error	A lens error occurred. Turn the camera off and then on again. If the error persists, contact your retailer or Nikon-authorized service representative.	22
Communications error	An error occurred while communicating with the printer. Turn the camera off and reconnect the USB cable.	15
System error	An error occurred in the camera's internal circuitry. Turn the camera off, remove and reinsert the battery, and turn the camera on. If the error persists, contact your retailer or Nikon-authorized service representative.	22

Display	Cause/Solution	🕮
Printer error: check printer status.	After solving the problem, select **Resume** and press the OK button to resume printing.*	–
Printer error: check paper.	Load the specified size of paper, select **Resume**, and press the OK button to resume printing.*	–
Printer error: paper jam.	Remove the jammed paper, select **Resume**, and press the OK button to resume printing.*	–
Printer error: out of paper.	Load the specified size of paper, select **Resume**, and press the OK button to resume printing.*	–
Printer error: check ink.	There is a problem with the printer's ink. Check the ink, select **Resume**, and press the OK button to resume printing.*	–
Printer error: out of ink.	Replace the ink cartridge, select **Resume**, and press the OK button to resume printing.*	–
Printer error: file corrupt.	There is a problem with the image file to be printed. Select **Cancel** and press the OK button to cancel printing.	–

* See the documentation provided with your printer for further guidance and information.

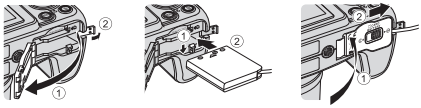
File Names

Images, movies, or voice memos are assigned file names as follows.

File name: DSCN0001.JPG
(1) (2) (3)

(1) Identifier	Not shown on camera monitor.	
	DSCN	Original still images, movies, still images extracted from movies
	SSCN	Small picture copies
	RSCN	Cropped copies
	FSCN	Images created by an image editing function other than crop and small picture, movies created by the movie editing function
(2) File number	Assigned automatically in ascending order, starting with "0001" and ending up with "9999." • When a file number reaches "9999," a new folder is created and the next file number returns to "0001." • A new folder is created each time a series of images are captured using interval timer shooting, and the images are saved in that folder with file numbers starting with "0001."	
(3) Extension	Indicates file format.	
	.JPG	JPEG still images
	.MOV	Movies
	.WAV	Voice memos • Identifier and file number are the same as the image to which the voice memo is attached.

Optional Accessories

Battery charger	Battery Charger MH-61 (Charging time when no charge remains: Approx. 2 hours)
AC adapter	AC Adapter EH-62A (connect as shown) 1 2 3  Before closing the battery-chamber/memory card slot cover, fully insert the power connector cord into the slot in the battery chamber. If part of the cord runs out of the groove, the cover or cord may be damaged when the cover is closed.
Audio video cable	Audio Video Cable EG-CP16
Wireless mobile adapter	Wireless Mobile Adapter WU-1a When you attach the WU-1a to the USB/audio/video output connector of the camera, the camera can connect via Wi-Fi (wireless LAN) connection to smart devices that have the dedicated software installed. You can use your smart device to release the camera's shutter by remote operation or copy images stored on the memory card inserted in the camera to the smart device. • Operations other than turning on and off the camera using the camera's controls cannot be performed during remote control operation. • When a memory card is not inserted in the camera, the Wi-Fi feature cannot be used. • This function cannot be used when the Eye-Fi card is inserted into the camera. See our websites, product catalogs, or the documentation provided with the WU-1a for further details.
Hand strap	Hand Strap AH-CP1

Availability may vary with country or region.
See our website or brochures for the latest information.

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Caring for the Products

The Camera

To ensure continued enjoyment of this Nikon product, observe the precautions described below in addition to the warnings in "For Your Safety" (vii-ix) when using or storing the device.

☑ Do Not Drop

The product may malfunction if subjected to strong shock or vibration.

☑ Handle the Lens and All Moving Parts with Care

Do not apply force to the lens, lens cover, monitor, memory card slot, or battery chamber. These parts are easily damaged. Applying force to the lens cover could result in camera malfunction or damage to the lens. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

☑ Keep Dry

The device will be damaged if immersed in water or subjected to high humidity.

☑ Avoid Sudden Changes in Temperature

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

☑ Keep away from Strong Magnetic Fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charge or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data saved on the memory card, or affect the product's internal circuitry.

☑ Do Not Point the Lens at Strong Light Sources for Extended Periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration of the image sensor, producing a white blur effect in photographs.

Turn the Product off Before Removing or Disconnecting the Power Source or the Memory Card

Do not remove the battery while the product is on, or while images are being saved or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

Notes About the Monitor

- Monitors and electronic viewfinders are constructed with extremely high precision; at least 99.99% of pixels are effective, with no more than 0.01% being missing or defective. Hence while these displays may contain pixels that are always lit (white, red, blue, or green) or always off (black), this is not a malfunction and has no effect on images recorded with the device.
- Images in the monitor may be difficult to see under bright lighting.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

The Battery

- Be sure to read and follow the warnings in "For Your Safety" (vii-ix) before use.
- Check the battery level before using the camera and replace or charge the battery if necessary. Do not continue charging once the battery is fully charged as this will result in reduced battery performance. Whenever possible, carry a fully charged spare battery when taking images on important occasions.
- Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F).
- Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F) before use.
- When the battery temperature is between 0°C and 10°C (32°F to 50°F) or 45°C to 60°C (113°F to 140°F), the chargeable capacity may decrease.
- The battery is not charged at ambient temperatures below 0°C (32°F) or above 60°C (140°F).
- Note that the battery may become hot during use; wait for the battery to cool before charging. Failure to observe these precautions could damage the battery, impair its performance, or prevent it from charging normally.
- On cold days, the capacity of batteries tends to decrease. If an exhausted battery is used at a low temperature, the camera will not turn on. Be sure that the battery is fully charged before heading outside to take images in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- Dirt on the battery terminals can prevent the camera from functioning. Should the battery terminals become dirty, wipe them off with a clean, dry cloth before use.

- If the battery will not be used for some time, insert it in the camera and completely exhaust it before removing it for storage. The battery should be stored in a cool location with an ambient temperature of 15°C to 25°C (59°F to 77°F). Do not store the battery in hot or extremely cold locations.
- Always remove the battery from the camera or optional battery charger when it is not being used. When inserted, minute amounts of current are drawn from the battery even when not in use. This may result in excessive draining of the battery and complete loss of function. Turning the camera on or off while the battery is exhausted can result in reduced battery life.
- Recharge the battery at least once every six months and completely exhaust it before returning it to storage.
- After removing the battery from the camera or optional battery charger, put the battery in a plastic bag, etc. to insulate it and store it in a cool place.
- A marked drop in the time a fully-charged battery retains its charge, when used at room temperature, indicates that the battery needs to be replaced. Purchase a new EN-EL5 battery.
- Replace the battery when it no longer holds a charge. Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

Charging AC Adapter

Be sure to read and follow the warnings in "For Your Safety" (📖vii-ix) before use.

- The Charging AC Adapter EH-70P/EH-70PCH is for use only with compatible devices. Do not use with another make or model of device.
- Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-70P/EH-70PCH or USB-AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.
- The EH-70P/EH-70PCH is compatible with AC 100 V-240 V, 50/60 Hz electrical outlets. When using in other countries, use a plug adapter (available commercially) as necessary. For more information about plug adapters, consult your travel agency.

Memory Cards

- Use only Secure Digital memory cards. See "Approved Memory Cards" (📖21) for recommended memory cards.
- Observe the precautions noted in the documentation included with your memory card.
- Do not affix labels or stickers to the memory card.
- Do not format the memory card using a computer.
- The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera. We recommend formatting new memory cards with this camera before using them with this camera.
- Note that ***formatting a memory card permanently deletes all images and other data on the memory card.*** If there is data saved on the memory card that you wish to keep, copy that data to a computer before formatting.
- If the message **Card is not formatted. Format card?** is displayed when the camera is turned on, the memory card must be formatted. If there is data on the memory card that you do not want to delete, select **No** and press the OK button. Copy that data to a computer before formatting. To format the memory card, select **Yes**.
- Observe the following precautions while formatting the memory card, saving and deleting images, and copying images to a computer, otherwise data or the memory card itself may be damaged.
  - Do not open the battery-chamber/memory card slot cover or remove the memory card or battery.
  - Do not turn off the camera.
  - Do not disconnect the AC adapter.

Caring for the Camera

Cleaning

Lens/ viewfinder	Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of them and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.
Monitor	Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.
Body	Use a blower to remove dust, dirt, or sand, then wipe gently with a soft, dry cloth. After using the camera at the beach or other sandy or dusty environment, wipe off any sand, dust, or salt with a dry cloth lightly dampened with fresh water and dry thoroughly. ***Note that foreign matter inside the camera could cause damage not covered by the warranty.***

Do not use volatile organic solvents such as alcohol or thinner, chemical detergents, anticorrosive agents, or anti-fogging agents.

Storage

Turn the camera off when not in use. Be sure that the power-on lamp is off before putting the camera away. Remove the battery if the camera will not be used for an extended period. Do not store the camera with naphtha or camphor moth balls, or in any of the following locations:

- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below –10°C (14°F) or above 50°C (122°F)
- Places that are poorly ventilated or subject to humidity of over 60%

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.

For storing the battery, follow the precautions in "The Battery" (3) in "Caring for the Products" (2).

Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative.

Power, Display, Settings Issues

Problem	Cause/Solution	🕮
The camera is on but does not respond.	• Wait for recording to end. • If the problem persists, turn the camera off. If the camera does not turn off, remove and reinsert the battery or batteries or, if you are using an AC adapter, disconnect and reconnect the AC adapter. Note that although any data currently being recorded will be lost, data that have already been recorded will not be affected by removing or disconnecting the power source.	– 22, 81
Battery inserted in the camera cannot be charged.	• Confirm all connections. • When connected to a computer, the camera may not charge for any of the reasons described below. - **Off** is selected for **Charge by computer** in the setup menu. - Battery charging stops if the camera is turned off. - Battery charging is not possible if the camera's display language and date and time have not been set, or the date and time were reset after the camera's clock battery was exhausted. Use the charging AC adapter to charge the battery. - Battery charging may stop if the computer is in sleep mode. - Depending upon the computer specifications, settings, and status, battery charging may not be possible.	18 71 – 24, 25 – –
Camera cannot be turned on.	• The battery is exhausted. • When the charging AC adapter is connected, the camera cannot be turned on even if the power switch is pressed. The camera turns on in playback mode by pressing and holding down the ▶ (playback) button, but shooting is not possible.	22 18

Problem	Cause/Solution	🕮
Camera turns off without warning.	• The camera automatically turns off to save power (auto off function). • The camera or battery has become too cold and cannot operate properly. • The inside of the camera has become hot. Leave the camera off until the inside of the camera has cooled, and then try turning it on again.	23 🕭3 –
The monitor or viewfinder is blank.	• The camera is off. • The battery is exhausted. • The camera has entered standby mode to save power. Press the power switch, shutter-release button, ▶ button or ● (🎥 movie-record) button, or rotate the mode dial. • You cannot turn on both the monitor and viewfinder at the same time. It may take a while to switch between the monitor and viewfinder. • The camera and computer are connected via a USB cable. • The camera and TV are connected via an audio video cable or HDMI cable. • Interval timer shooting in progress.	22 22 23 – 93, 96 93, 🕶13 🕶35
Monitor is hard to see.	• The ambient light is too bright. Move to a darker place or use the viewfinder. • Adjust the monitor brightness. • The monitor is dirty. Clean the monitor.	7 91, 🕶62 🕭6
Image in the viewfinder is difficult to see.	Adjust the viewfinder using the diopter adjustment control.	7
Date and time of recording are not correct.	• If the camera clock has not been set, the "Date not set" indicator flashes during shooting and movie recording. Images and movies saved before the clock is set are dated "00/00/0000 00:00" or "01/01/2014 00:00" respectively. Set the correct time and date from the **Time zone and date** option in the setup menu. • The camera clock is not as accurate as ordinary watches or clocks. Periodically compare the time of the camera clock with that of a more accurate timepiece and reset as required.	24, 91, 🕶60 91, 🕶60
No information displayed in monitor.	**Hide info** is selected for **Photo info** in **Monitor settings** in the setup menu.	91, 🕶62

Problem	Cause/Solution	🕮
Print date not available.	**Time zone and date** has not been set in the setup menu.	24, 91, 60
Date not imprinted on images even when **Print date** is enabled.	• The current shooting mode does not support **Print date**. • A function that restricts the Print date function is enabled. • The date cannot be imprinted on movies.	91, 64 72 –
Screen for setting time zone and date is displayed when camera is turned on.	The clock battery is exhausted; all settings were restored to their default values.	24, 25
Camera settings reset.		
Reset file numbering cannot be done.	Although a new folder is created in the internal memory or on the memory card by resetting file numbering, etc., if the sequential number of a folder name (which is not displayed on the camera) reaches the upper limit ("999"), reset is not possible. Change the memory card, or format the internal memory/memory card.	92, 72
Camera becomes hot.	The camera may become hot when used for an extended period of time to shoot movies or send images using an Eye-Fi card, or when used in a hot environment; this is not a malfunction.	–
Camera makes sound.	When **Autofocus mode** is set to **Full-time AF** or while in some shooting modes, the camera may produce an audible focusing sound.	69, 89

Shooting Issues

Problem	Cause/Solution	🕮
Cannot switch to shooting mode.	• Disconnect the HDMI cable or USB cable.	93, 96, 13, 15
	• When the camera is connected to the electrical outlet using the charging AC adapter, the camera cannot switch to shooting mode.	18

Problem	Cause/Solution	🕮
No image captured when the shutter-release button is pressed.	• When the camera is in playback mode, press the ▶ button, shutter-release button or ● (🎥 movie-record) button. • When menus are displayed, press the MENU button. • The battery is exhausted. • When the scene mode is **Night portrait** or **Backlighting** with **HDR** set to **Off**, raise the flash. • If the flash mode icon flashes when the shutter-release button is pressed halfway, the flash is charging.	32 8 22 38, 42, 56 56
Camera cannot focus.	• The subject is too close. Try shooting using the **Scene auto selector** or **Close-up** scene mode, or the macro close-up focus mode. • Incorrect focus mode setting. Check or change the setting. • The subject is hard to focus on. • Set **AF assist** in the setup menu to **Auto**. • Subject is not in focus area when the shutter-release button is pressed halfway. • The focus mode is set to MF (manual focus). • Turn the camera off and then on again.	39, 40, 61, 62 61, 62 78 91, 🕶66 30, 69 61, 63 22
Colored stripes appear in the monitor when shooting.	Colored stripes may appear when shooting subjects with repeating patterns (such as window blinds); this is not a malfunction. The colored stripes will not appear in captured images or recorded movies. However, when using **Continuous H: 120 fps** or **HS 480/4×**, the colored stripes may be seen in the captured images and recorded movies.	–
Images are blurred.	• Use the flash. • Enable vibration reduction or motion detection. • Use BSS (Best Shot Selector) of **Continuous** in the shooting menu. • Use a tripod to stabilize the camera when shooting (using the self-timer at the same time is more effective).	56 91, 🕶65, 🕶66 69 59
Bright specks appear in images captured with flash.	Flash is reflecting off particles in air. Lower the flash, and set the flash mode to ⊘ (off).	56

Problem	Cause/Solution	🕮
Flash does not fire.	• A shooting mode where the flash cannot fire is selected. • A function that restricts the flash is enabled.	66 72
Digital zoom cannot be used.	• A function that restricts digital zoom is enabled. • **Digital zoom** is set to **Off** in the setup menu. • Digital zoom cannot be used in the following scene modes. - **Scene auto selector**, **Portrait**, **Night portrait**, **Easy panorama**, **Pet portrait**	72 91, 67 36
Image size not available.	• A function that restricts the **Image size** option is enabled. • When the scene mode is set to **Easy panorama**, the image size is fixed.	72 43
No sound when shutter is released.	**Off** is selected for **Sound settings** > **Shutter sound** in the setup menu. No sound is produced with some shooting modes and settings, even when **On** is selected.	72, 91, 67
AF-assist illuminator does not light.	**Off** is selected for the **AF assist** option in the setup menu. AF-assist illuminator may not light depending on the position of the focus area or the current scene mode, even when **Auto** is selected.	91, 66
Images appear smeared.	The lens is dirty. Clean the lens.	6
Colors are unnatural.	White balance is not adjusted properly.	41, 68, 29
Randomly spaced bright pixels ("noise") appear in image.	The subject is dark, and the shutter speed is too slow or ISO sensitivity is too high. Noise can be reduced by: • Using the flash. • Specifying a lower ISO sensitivity setting.	 56 69, 37
Bright spots appear in image.	When shooting at a slow shutter speed in multiple exposure mode, noise (bright spots) may appear in saved images.	–
Images are too dark (underexposed).	• The flash window is blocked. • The subject is beyond the range of the flash. • Adjust exposure compensation. • Increase ISO sensitivity. • The subject is backlit. Raise the flash or select the scene mode **Backlighting** and try taking an image again.	28 18 65 69, 37 42, 56

Problem	Cause/Solution	🕮
Images are too bright (overexposed).	Adjust exposure compensation.	65
Unexpected results when flash set to ⚡◉ (auto with red-eye reduction).	When taking images with ⚡◉ (auto with red-eye reduction) or fill flash with red-eye reduction in **Night portrait** scene mode, In-Camera Red-Eye Fix may be applied to areas not affected by red-eye in rare cases. Use any scene mode other than **Night portrait**, and change the flash mode to any setting other than ⚡◉ (auto with red-eye reduction) and try taking an image again.	38, 56
Skin tones are not softened.	• In some shooting conditions, facial skin tones may not be softened. • For images containing 4 or more faces, try using **Skin softening** in the playback menu.	78 82, 9
Saving images takes time.	It may take more time to save images in the following situations. • When the noise reduction function is in operation • When the flash mode is set to ⚡◉ (auto with red-eye reduction) • When taking images in the following scene modes. - **Hand-held** in **Night landscape** - **Noise reduction burst** in **Landscape** or **Close-up** - **HDR** is set to any setting other than **Off** in **Backlighting** - **Easy panorama** • **Continuous** in the shooting menu is set to **Continuous H: 120 fps** or **Continuous H: 60 fps** • When using smile timer while shooting • When using Active D-Lighting while shooting • When using multiple exposure while shooting	– 57 37 38, 40 42 43 69, 33 60 69, 43 69, 44
A ring-shaped belt or rainbow-colored stripe appears in the monitor or images.	When shooting with backlighting or when a very strong light source (such as sunlight) is in the frame, a ring-shaped belt or rainbow-colored stripe (ghosting) may occur. Change the position of the light source, or frame the image so that the light source does not enter the frame, and try again.	–

Problem	Cause/Solution	🕮
Cannot select a setting/Selected setting is disabled.	• Certain menu items are unavailable depending on the shooting mode. Menu items that cannot be selected are displayed in gray. • A function that restricts the selected function is enabled.	8 –

Playback Issues

Problem	Cause/Solution	🕮
File cannot be played back.	• This camera may not be able to play back images saved with another make or model of digital camera. • This camera may not be able to play back data edited on a computer. • Files cannot be played back during interval timer shooting.	– – 69, 35
Cannot zoom in on image.	• Playback zoom cannot be used with movies. • This camera may not be able to zoom in on images captured with another make or model of digital camera. • When zooming in on a small-sized image, the zoom ratio shown on the screen may differ from the actual zoom ratio of the image.	– – –
Cannot record voice memo.	• Voice memos cannot be attached to movies. • Voice memos cannot be attached to images captured with other cameras. Voice memos attached to images using another camera cannot be played back on this camera.	– 82, 52
Cannot edit image.	• Some images cannot be edited. Images that have already been edited may not be edited again. • There is not enough free space in the internal memory or on the memory card. • This camera is unable to edit images captured with other cameras. • Editing functions used for images are not available for movies.	43, 7 – 84, 7 –
Images are not displayed on TV.	• **Video mode** or **HDMI** is not correctly set in the **TV settings** setup menu. • A computer or printer is connected to the camera. • The memory card contains no images. Replace the memory card to play back images from the internal memory.	92, 70 93, 96, 15 20

Problem	Cause/Solution	🕮
Nikon Transfer 2 does not start when camera is connected to a computer.	• The camera is off. • The battery is exhausted. • The USB cable is not correctly connected. • The camera is not recognized by the computer. • The computer is not set to start Nikon Transfer 2 automatically. For more information about Nikon Transfer 2, refer to help information contained in ViewNX 2.	22 22 93, 96 – 96
The PictBridge screen is not displayed when the camera is connected to a printer.	With some PictBridge-compatible printers, the PictBridge screen may not be displayed and it may be impossible to print images when **Auto** is selected for the **Charge by computer** option. Set the **Charge by computer** option to **Off** and reconnect the camera to the printer.	92, 71
Images to be printed are not displayed.	• The memory card contains no images. Replace the memory card. • Remove the memory card to print images from the internal memory.	20 21
Cannot select paper size with camera.	The camera cannot be used to select the paper size in the following situations, even when printing from a PictBridge-compatible printer. Use the printer to select the paper size. • The printer does not support the paper sizes specified by the camera. • The printer automatically selects the paper size.	 16, 18 –

Specifications

Nikon COOLPIX P530 Digital Camera

Type		Compact digital camera
Number of effective pixels		16.1 million
Image sensor		1/2.3-in. type CMOS; approx. 16.76 million total pixels
Lens		NIKKOR lens with 42× optical zoom
	Focal length	4.3-180 mm (angle of view equivalent to that of 24-1000 mm lens in 35mm [135] format)
	f/-number	f/3-5.9
	Construction	14 elements in 10 groups (4 ED lens elements)
Digital zoom magnification		Up to 4× (angle of view equivalent to that of approx. 4000 mm lens in 35mm [135] format)
Vibration reduction		Lens shift
Motion blur reduction		Motion detection (still pictures)
Autofocus (AF)		Contrast-detect AF
	Focus range	• [W]: Approx. 50 cm (1 ft 8 in.) - ∞, [T]: Approx. 2.0 m (6 ft 7 in.) - ∞ • Macro close-up mode: Approx. 1 cm (0.4 in.) (at a wide-angle zoom position) - ∞ (All distances measured from center of front surface of lens)
	Focus-area selection	Target finding AF, face priority, manual (spot), manual (normal), manual (wide), subject tracking
Viewfinder		Electronic viewfinder, 0.5 cm (0.2-in.) approx. 201k-dot equivalent LCD with the diopter adjustment function (–4 - +4 m^{-1})
	Frame coverage (shooting mode)	Approx. 100% horizontal and 100% vertical (compared to actual picture)
	Frame coverage (playback mode)	Approx. 100% horizontal and 100% vertical (compared to actual picture)
Monitor		7.5 cm (3-in.), approx. 921k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment
	Frame coverage (shooting mode)	Approx. 100% horizontal and 100% vertical (compared to actual picture)
	Frame coverage (playback mode)	Approx. 100% horizontal and 100% vertical (compared to actual picture)

Storage	
Media	Internal memory (approx. 56 MB) SD/SDHC/SDXC memory card
File system	DCF, Exif 2.3 and DPOF compliant
File formats	Still pictures: JPEG Sound files (voice memo): WAV Movies: MOV (Video: H.264/MPEG-4 AVC, Audio: LPCM stereo)
Image size (pixels)	• 16 M **4608×3456** • 4 M **2272×1704** • VGA **640×480** • 16:9 2M **1920×1080** • 1:1 **3456×3456** • 8 M **3264×2448** • 2 M **1600×1200** • 16:9 12M **4608×2592** • 3:2 **4608×3072**
ISO sensitivity (Standard output sensitivity)	• ISO 100 - 1600 • ISO 3200, 6400 (available when using **P**, **S**, **A** or **M** mode) • Hi 1 (equivalent to ISO 12800) (available when using **High ISO monochrome** in special effects mode)
Exposure	
Metering mode	Matrix, center-weighted, or spot
Exposure control	Programmed auto exposure with flexible program, shutter-priority auto, aperture-priority auto, manual, exposure bracketing enabled, exposure compensation (–2.0 EV - +2.0 EV in steps of 1/3 EV) enabled
Shutter	Mechanical and CMOS electronic shutter
Speed	• 1/4000 * - 1 s • 1/4000 * - 15 s (when ISO sensitivity is 100 in **M** mode) * When the aperture value is set to f/6.6 - f/8.3 (wide-angle end)
Aperture	Electronically-controlled 6-blade iris diaphragm
Range	10 steps of 1/3 EV (W) (**A**, **M** mode)
Self-timer	Can be selected from 10 s and 2 s

Built-in flash	
Range (approx.) (ISO sensitivity: Auto)	[W]: 0.5 - 8.0 m (1 ft 8 in. - 26 ft) [T]: 1.5 - 4.5 m (5 - 14 ft)
Flash control	TTL auto flash with monitor preflashes
Flash exposure compensation	In steps of 1/3 EV in the range between –2 and +2 EV
Interface	Hi-Speed USB equivalent
Data transfer protocol	MTP, PTP
Video output	Can be selected from NTSC and PAL
HDMI output	Can be selected from Auto, 480p, 720p, and 1080i
I/O terminal	• Audio/video output; digital I/O (USB) • HDMI mini connector (Type C) (HDMI output)
Supported languages	Arabic, Bengali, Bulgarian, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Japanese, Korean, Marathi, Norwegian, Persian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Serbian, Spanish, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Vietnamese
Power sources	• One Rechargeable Li-ion Battery EN-EL5 (included) • AC Adapter EH-62A (available separately)
Charging time	Approx. 4 h 10 min (when using Charging AC Adapter EH-70P/EH-70PCH and when no charge remains)
Battery life[1]	
Still pictures	Approx. 240 shots when using EN-EL5
Movie recording (actual battery life for recording)[2]	Approx. 1 h when using EN-EL5
Tripod socket	1/4 (ISO 1222)
Dimensions (W × H × D)	Approx. 122.8 × 84.1 × 98.2 mm (4.9 × 3.4 × 3.9 in.) (excluding projections)
Weight	Approx. 494 g (1 lb 1.5 oz) (including battery and SD memory card)
Operating environment	
Temperature	0°C - 40°C (32°F - 104°F)
Humidity	85% or less (no condensation)

- Unless otherwise stated, all figures assume a fully-charged battery and an ambient temperature of 23 ±3°C (73.4 ±5.4°F) as specified by the Camera and Imaging Products Association (CIPA).

[1] Battery life may vary depending on conditions of use, such as the interval between shots or the length of time that menus and images are displayed.

[2] Individual movie files cannot exceed 4 GB in size or 29 minutes in length. Recording may end before this limit is reached if camera temperature becomes elevated.

Rechargeable Li-ion Battery EN-EL5

Type	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 1100 mAh
Operating temperature	0°C - 40°C (32°F - 104°F)
Dimensions (W × H × D)	Approx. 36 × 54 × 8 mm (1.4 × 2.1 × 0.3 in.)
Weight	Approx. 30 g (1.1 oz)

Charging AC Adapter EH-70P/EH-70PCH

Rated input	AC 100 - 240 V, 50/60 Hz, 0.07 to 0.044 A
Rated output	DC 5.0 V, 550 mA
Operating temperature	0°C - 40°C (32°F - 104°F)
Dimensions (W × H × D)	Approx. 55 × 22 × 54 mm (2.2 × 0.9 × 2.2 in.) (excluding plug adapter) For Argentina: Approx. 55 × 59 × 63 mm (2.2 × 2.4 × 2.5 in.)
Weight	Approx. 47 g (1.7 oz) (excluding plug adapter) For Argentina: Approx. 72 g (2.6 oz)

Specifications

- Nikon will not be held liable for any errors this manual may contain.
- The appearance of this product and its specifications are subject to change without notice.

AVC Patent Portfolio License

This product is licensed under the AVC Patent Portfolio License for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC standard ("AVC video") and/or (ii) decode AVC video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, L.L.C.
See **http://www.mpegla.com**.

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FX5C02(11)
6MN40611-02